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IZ?) AND (E OR EISENIA) (W) FOETID?

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=> d cbib abs 1-12

DUPLICATE 1 L8 ANSWER 1 OF 12 MEDLINE 2000092910 Document Number: 20092910. PubMed ID: 10625682. A

Page 1

Prepared by M. Hale 308-4258

lipopolysaccharide- and beta-1,3-glucan-binding protein from hemocytes of the freshwater crayfish Pacifastacus leniusculus. Purification, characterization, and cDNA cloning. Lee S Y; Wang R; Soderhall K. (Department of Comparative Physiology, Evolutionary Biology Center, Uppsala University, Norbyvagen 18A, S-75236, Uppsala, Sweden.) JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Jan 14) 275 (2) 1337-43. Journal code: HIV; 2985121R. ISSN: 0021-9258. Pub. country: United States.

Language: English.

AB A lipopolysaccharide- and beta-1,3-glucan-binding protein (LGBP) was isolated and characterized from blood cells (hemocytes)

of the freshwater crayfish Pacifastacus leniusculus. The LGBP was purified

by chromatography on Blue-Sepharose and phenyl-Sepharose, followed by Sephacryl S-200. The LGBP has a molecular mass of 36 kDa and 40 kDa on 10%

SDS-polyacrylamide gel electrophoresis under reducing and nonreducing conditions, respectively. The calculated mass of LGBP is 39,492 Da, which corresponds to the native size of LGBP; the estimated pI of the mature LGBP is 5.80. LGBP has binding activity to lipopolysaccharides as well as to beta-1,3-glucans such as laminarin and curdlan, but peptidoglycan

not bind to LGBP. Cloning and sequencing of LGBP showed significant homology with several putative Gram-negative bacteria-binding proteins and

beta-1, 3-glucanases. Interestingly, LGBP also has a structure and functions similar to those of the coelomic cytolytic factor-1, a lipopolysaccharide- and glucan-binding protein from the earthworm Eisenia foetida. To evaluate the involvement of LGBP in the prophenoloxidase (proPO) activating system, a polyclonal antibody against LGBP was made and used for the inhibition of phenoloxidase (PO) activity triggered by the beta-1,3-glucan laminarin in the hemocyte lysate of crayfish. The PO activity was blocked completely

the anti-LGBP antibody. Moreover, the PO activity could be recovered by the addition of purified LGBP. These results suggest that the 36-kDa LGBP plays a role in the activation of the proPO activating system in crayfish and thus seems to play an important role in the innate immune system of crayfish.

L8 ANSWER 2 OF 12 BIOSIS COPYRIGHT 2001 BIOSIS 2000:361799 Document No.: PREV200000361799. Earthworm functional analog of TNF

increases membrane conductance in mammalian cells. Bloc, A. (1); Lucas, ${\sf R}.$

(1); De Baetselier, P.; Bilej, M.; Beschin, A.. (1) Department of Internal

Medicine and Pharmacology, University of Geneva, Geneva Switzerland. Developmental & Comparative Immunology, (2000) Vol. 24, No. Supplement 1, pp. S95. print. Meeting Info.: 8th Congress of the International Society of Developmental and Comparative Immunology Cairns, Australia July 03-06, 2000 ISSN: 0145-305X. Language: English. Summary Language: English.

L8 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2001 ACS

DUPLICATE 2

- 1999:405076 Document No. 131:41281 Earthworm coelomic cytolytic factor CCF-1 and treatment of cancer and trypanosomal or bacterial infection. De Baetselier, Patrick (Vlaams Interuniversitair Instituut voor Biotechnologie Vzw., Belg.). PCT Int. Appl. WO 9931229 A2 19990624, 49 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY,
- CA,

 CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1998-EP8169 19981216. PRIORITY: EP 1997-203974 19971217.
- AB The invention concerns Eisenia foetida CCF-1 and a 13-amino acid peptide derived therefrom (SGEIDIIETIGNR) which are useful in tumor therapy, microbial infection, inflammation or immunol. The invention also relates to a process for prepg. CCF-1 and peptide with recombinant cells. Furthermore the invention concerns nucleic acids coding for CCF-1 and peptide. Thus, the previously described 42-kilodalton cytolytic protein of E. foetida (CCF-1) was shown to bind lipopolysaccharide (LPS) and .beta.-1,3-glucan and to have trypanolytic activity. The activity profile of CCF-1 resembles that of tumor necrosis factor .alpha. (TNF.alpha.), so CCF-1 may be considered a primitive type of cytokine which may be useful as an alternative to TNF.alpha. Anti-TNF.alpha. monoclonal antibodies crossreacted with CCF-1 and vice-versa. In E. foetida CCF-1 levels were increased after LPS treatment, which resembles TNF.alpha. induction by LPS in vertebrates. CCF-1 also participated in the prophenol oxidase cascade of the coelomic fluid of E. The cytolytic, trypanolytic and glucan-binding activity of CCF-1 was also displayed by the 13-amino acid peptide described above. The sequence of this peptide is, however, completely different from the TIP region of TNF.alpha..
- L8 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2001 ACS
- 1999:539165 Document No. 131:285145 Convergent evolution of cytokines.
 Beschin, Alain; Bilej, Martin; Brys, Lea; Torreele, Els; Lucas, Rudolf;
 Magez, Stefan; De Baetselier, Patrick (Dep. Immunology, Parasitology and
 Ultrastructure, Flemish Interuniversity Inst. Biotechnology,
 St-Genesius-Rode, 1640, Belg.). Nature (London), 400(6745), 627-628
 (English) 1999. CODEN: NATUAS. ISSN: 0028-0836. Publisher: Macmillan
 Magazines.
- AB Despite their functional analogies, the defense mol. from the earthworm Eisenia foetida named coelomic cytolytic factor-1 (CCF-1), and tumor necrosis factor .alpha. do not show genetic homol., indicating that they lack a common evolutionary origin. CCF-1 cannot therefore be considered as an invertebrate cytokine homolog.
- L8 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2001 ACS
 1999:385557 Document No. 131:166768 Biochemical characteristics of
 Eiseniapore, a pore-forming protein in the coelomic fluid of earthworms.
 Lange, Sven; Kauschke, Ellen; Mohrig, Werner; Cooper, Edwin L.
 (Mathematisch-Naturwissenschaftliche Fakultat I Institut fur
 Biologie/Biophysik, Humboldt Universitat Berlin, Germany). Eur. J.

Biochem., 262(2), 547-556 (English) 1999. CODEN: EJBCAI. ISSN: 0014-2956. Publisher: Blackwell Science Ltd..

AB The cytolytic protein Eiseniapore (38 kDa) from coelomic fluid of the earthworm Eisenia fetida functionally requires sphingomyelin as revealed by using mammalian erythrocytes and phospholipid vesicles. The effects of ions, glycoproteins and phospholipids were investigated for

the

two-step Eiseniapore action mode, binding and pore formation in different assays. Eiseniapore lysis is activated by thiol groups but inhibited by metal ions. Eiseniapore binding to target membranes is inhibited by Eiseniapore-regulating factor, vitronectin, heparin and lysophosphatidylcholine. Ca2+ and Mg2+ were found to be not necessary

for

membrane binding or lytic activity. Sphingomyelin was essential for Eiseniapore-induced leakage of liposomes. We describe a cytolytic protein/toxin in Eiseniapore which differs from the established classification; it can be activated by thiol groups and is inhibited by sphingomyelin. Electron microscopy of erythrocyte membranes confirmed ring-shaped structures (pores) with a central channel with outer (10 nm) and inner (3 nm) diams. as shown previously [Lange, S., Nussler, F., Kauschke, E., Lutsch, G., Cooper, E.L. & Herrmann, A. (1997) J. Biol. Chem. 272, 20884-20892] using artificial membranes. Functional evidence of pore formation by Eiseniapore was revealed as protection of lysis by carbohydrates occurred at an effective diam. above 3 nm. From these results, we suggest a plausible explanation for the mechanism by which components of the earthworm's immune system destroy non-self components.

L8 ANSWER 6 OF 12 MEDLINE DUPLICATE 3
1999057952 Document Number: 99057952. PubMed ID: 9837968. Mammalian cell
mutants resistant to a sphingomyelin-directed cytolysin. Genetic and
biochemical evidence for complex formation of the LCB1 protein with the
LCB2 protein for serine palmitoyltransferase. Hanada K; Hara T; Fukasawa
M; Yamaji A; Umeda M; Nishijima M. (Department of Biochemistry and Cell
Biology, National Institute of Infectious Diseases, Tokyo 162-8640,
Japan.. hanak@nih.go.jp) . JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Dec 11)

273 (50) 33787-94. Journal code: HIV; 2985121R. ISSN: 0021-9258. Pub. country: United States. Language: English.

AB Lysenin, a hemolytic protein derived from the earthworm Eisenia foetida, has a high affinity for sphingomyelin. Chinese hamster ovary (CHO) cells exhibited a high cytolytic sensitivity to lysenin, but treatment with sphingomyelinase rendered the cells resistant to lysenin. Temperature-sensitive CHO mutant cells defective in sphingolipid synthesis were resistant to lysenin, and this lysenin resistance was suppressed by metabolic complementation of sphingolipids. Selection of lysenin-resistant variants from mutagenized CHO cells

two types of sphingomyelin-deficient mutants, both of which showed less lysenin binding capability than wild-type cells. One mutant strain was severely defective in sphingomyelin synthesis but not glycosphingolipid synthesis, and another strain (designated LY-B) was incapable of de novo synthesis of any sphingolipid species and had no activity of serine palmitoyltransferase (SPT; EC 2.3.1.50) catalyzing the first step of sphingolipid biosynthesis. LY-B cells lacked the LCB1 protein, a component

of SPT, and transfection of LY-B cells with the hamster LCB1 cDNA restored $\,$

both SPT activity and sphingolipid synthesis to the cells. Expression of an affinity peptide-tagged LCB1 protein in LY-B cells caused the endogenous LCB2 protein to adsorb to a tag affinity matrix. In addition, an anti-hamster LCB2 protein antibody co-immunoprecipitated both SPT activity and the wild-type LCB1 protein with the LCB2 protein. Thus, cell surface sphingomyelin is essential for lysenin-induced cytolysis, and lysenin is a useful tool for isolation of sphingomyelin-deficient mutants.

Moreover, these results demonstrate that the SPT enzyme comprises both the LCB1 and LCB2 proteins.

L8 ANSWER 7 OF 12 MEDLINE DUPLICATE 4

1998406152 Document Number: 98406152. PubMed ID: 9733802. Identification and cloning of a glucan- and lipopolysaccharide-binding protein from Eisenia foetida earthworm involved in the activation of prophenoloxidase cascade. Beschin A; Bilej M; Hanssens F; Raymakers J; Van

Dyck E; Revets H; Brys L; Gomez J; De Baetselier P; Timmermans M. (Unit of

Cellular Immunology, Flemish Interuniversity Institute for Biotechnology, VIB-VUB, Paardenstraat 65, B-1640 St-Genesius-Rode, Belgium.. abeschin@vub.ac.be). JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Sep 18) 273 (38) 24948-54. Journal code: HIV; 2985121R. ISSN: 0021-9258. Pub. country: United States. Language: English.

AB Coelomic fluid of Eisenia foetida earthworms contains a 42-kDa protein named coelomic cytolytic factor 1 (CCF-1) that was described previously to be involved in cytolytic, opsonizing, and hemolytic properties of the coelomic fluid. Cloning and sequencing of CCF-1 reveal significant homology with the putative catalytic region of beta-1,3- and beta-1,3-1,4-glucanases. CCF-1 also displays homology with coagulation factor G from Limulus polyphemus and with Gram-negative bacteria-binding protein of Bombyx mori silkworm, two proteins involved in invertebrate defense mechanisms. We show that CCF-1 efficiently binds both beta-1,3-glucan and lipopolysaccharide. Moreover, CCF-1 participates in the activation of prophenoloxidase cascade

via recognition of yeast and Gram-negative bacteria cell wall components. These results suggest that the 42-kDa CCF-1 protein of E. foetida coelomic fluid likely plays a role in the protection of earthworms against microbes.

L8 ANSWER 8 OF 12 MEDLINE DUPLICATE 5
1998200532 Document Number: 98200532. PubMed ID: 9541459. Cellular expression of the cytolytic factor in earthworms Eisenia foetida. Bilej M; Rossmann P; Sinkora M; Hanusova R; Beschin A; Raes G; De Baetselier P. (Department of Immunology, Institute of Microbiology, Academy of Sciences of the Czech Republic, Videnska, Prague.

) IMMUNOLOGY LETTERS, (1998 Jan) 60 (1) 23-9. Journal code: GIH; 7910006.

ISSN: 0165-2478. Pub. country: Netherlands. Language: English.

AB Coelomic fluid of earthworms contains a 42 kDa protein designated CCF-1 (coelomic cytolytic factor 1), which accounts for approximately 40% of cytolytic activity of the entire coelomic fluid. CCF-1

was documented to be present on cells of the mesenchymal lining of the coelomic cavity as well as on free coelomocytes. Both cellular and humoral

levels of CCF-1 were significantly increased after parenteral injection of endotoxin. Moreover, CCF-1 seems to be involved in cell mediated cytotoxicity, because cytotoxic activity is blocked in the presence of anti-CCF-1 monoclonal antibody (mAb).

L8 ANSWER 9 OF 12 MEDLINE DUPLICATE 6
1998111441 Document Number: 98111441. PubMed ID: 9449789. Lesion of leukocytes, erythrocytes, and mesothelial cells by the coelomic fluid of Eisenia foetida earthworms. Rossmann P; Bilej M; Tuckova
L; Stary V; Kofronova O. (Department of Immunology, Academy of Sciences of

the Czech Republic, Prague, Czech Republic.) FOLIA MICROBIOLOGICA, (1997)

42 (4) 409-16. Journal code: F23; 0376757. ISSN: 0015-5632. Pub. country:

Czech Republic. Language: English.

- AB Coelomic fluid of Eisenia foetida earthworms is known to exert strong proteolytic, hemolytic, bacteriostatic, and cytolytic properties. Ultrastructural observations revealed that coelomic fluid causes multiple ruptures and defects in the erythrocyte membrane as well as in the membrane of murine peritoneal leukocytes. Incubation of peritoneal cells in coelomic fluid resulted in a disorganization of the macrophage surface microvilli, changes in the organization of cytoplasmic organelles and disruption and degranulation of
- mast cells. Severe mesothelial damage was observed after intraperitoneal administration of the coelomic fluid.
- L8 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2001 ACS
 1995:912508 Document No. 123:335579 Hemolytic function of opsonin-like
 molecules in coelomic fluid of earthworms. Sinkora, Marek: Bilei.

molecules in coelomic fluid of earthworms. Sinkora, Marek; Bilej, Martin;

Martin;

Drbal, Karel; Tuckova, Ludmila (Institute Microbiology, Czech Academy Sciences, Prague, Czech Rep.). Adv. Exp. Med. Biol., 371A(Advances in Mucosal Immunology, Part A), 341-2 (English) 1995. CODEN: AEMBAP. ISSN: 0065-2598.

- AB Opsonizing proteins with hemolytic activity were isolated from the coelomic fluid of earthworms (Eisenia foetida).
- L8 ANSWER 11 OF 12 MEDLINE DUPLICATE 7
 95347752 Document Number: 95347752. PubMed ID: 7622179. Identification of
 - a cytolytic protein in the coelomic fluid of Eisenia foetida earthworms. Bilej M; Brys L; Beschin A; Lucas R; Vercauteren E; Hanusova R; De Baetselier P. (Department of Immunology and Gnotobiology, Academy of Sciences of the Czech Republic, Prague.) IMMUNOLOGY LETTERS, (1995 Feb) 45 (1-2) 123-8. Journal code: GIH; 7910006. ISSN: 0165-2478. Pub. country: Netherlands. Language: English.
- AB Total coelomic fluid of earthworms **Eisenia foetida** (Oligochaeta, Annelida) is capable of lysing different mammalian tumor cell lines. This **cytolytic** activity is different from tumor

necrosis factor (TNF)-mediated lysis and is not due to proteolysis. Total coelomic fluid was subjected to ion-exchange chromatography separation

and

a fraction with prominent cytolytic activity was used to elicit monoclonal antibodies that were screened for their capacity to neutralize the cytolytic effect of total coelomic fluid. One of the prepared neutralizing IgG antibodies was used for the immunoaffinity purification of a cytolytic factor from total coelomic fluid. SDS-PAGE and Western blot analyses revealed a protein band with an apparent molecular weight of 42 kDa. This cytolytic protein (termed CCF-1 or coelomic cytolytic factor 1) can be adsorbed on the surface of opsonized particles and may be involved in opsonizing and hemolytic effects of coelomic fluid.

L8 ANSWER 12 OF 12 MEDLINE DUPLICATE 8
94115317 Document Number: 94115317. PubMed ID: 8287023. Hemolytic function of opsonizing proteins of earthworm's coelomic fluid.

Sinkora M; Bilej M; Tuckova L; Romanovsky A. (Faculty of Natural Sciences,

Charles University, Vinicna, Prague, Czech Republic.) CELL BIOLOGY INTERNATIONAL, (1993 Oct) 17 (10) 935-9. Journal code: BPN; 9307129. ISSN: 1065-6995. Pub. country: ENGLAND: United Kingdom. Language: English.

AB Synthetic 2-hydroxyethylmethacrylate copolymer particles (HEMA) can be opsonized in the coelomic fluid of Eisenia foetida earthworms. The incomplete coelomic fluid (i.e., the coelomic fluid after incubation with HEMA particles) exerts a lower level of hemolytic activity compared to complete coelomic fluid. The decreased hemolysis can be compensated by the addition of isolated opsonins. On the other hand, isolated opsonins do not possess direct hemolytic capacity.

It in

can be suggested that at least one of the isolated opsonins is involved the hemolytic process. These results support the hypothesized cooperation of humoral and cellular mechanisms in earthworm defence.

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L31 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2001 BIOSIS
2001:357307 Document No.: PREV200100357307. Molecular characterization of a
     cytolytic and antimicrobial defence protein of the
     annelid Eisenia fetida. Leippe, M. (1); Ott, C. (1); Kauschke,
     E.; Bruhn, H. (1). (1) Bernhard Nocht Institute for Tropical Medicine,
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Hamburg Germany. Zoology (Jena), (2001) Vol. 103, No. Supplement 3, pp. 88. print. Meeting Info.: 93rd Annual Meeting of the Deutsche Zoologische Gesellschaft Bonn, Germany June 12-16, 2000 ISSN: 0944-2006. Language: English. Summary Language: English.

L31 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2001 BIOSIS 2000:487003 Document No.: PREV200000487003. A cytolytic and antimicrobial defence protein of the annelid Eisenia fetida with pore-forming activity. Bruhn, H. (1); Winkelmann, J. (1); Krause, E.; Leippe, M. (1). (1) Bernhard Nocht Institute for Tropical Medicine, Hamburg Germany. Medical Microbiology and Immunology, (September, 2000) Vol. 189, No. 1, pp. 31. print. Meeting Info.: 4th International Workshop on Pore-Forming Toxins Trento, Italy September 14-17, 2000 ISSN: 0300-8584. Language: English. Summary Language: English.

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                                                                  Alternative
     versus classical macrophage activation during experimental African
     trypanosomosis. Baetselier P D; Namangala B; Noel W; Brys L; Pays E;
     Beschin A. (Department of Immunology, Parasitology and
     Ultrastructure, Flemish Interuniversity Institute for Biotechnology, Free
     University Brussels (VUB), Paardenstraat 65, B-1640 St-Genesius-Rode,
     Belgium. ) INTERNATIONAL JOURNAL FOR PARASITOLOGY, (2001 May 1) 31 (5-6)
     575-87. Ref: 29. Journal code: GSB; 0314024. ISSN: 0020-7519. Pub.
     country: England: United Kingdom. Language: English.
     African trypanosomes are extracellular parasites causing sleeping
AB
sickness
     to human or nagana to livestock in sub-Saharan Africa. To gain insight
     into factors governing resistance/susceptibility to these parasites, the
     immune responses in mice infected with a Trypanosoma brucei phospholipase
```

C null mutant (PLC(-/-)) or its wild type counterpart (WT) were compared. We found that the T. b. brucei mutant inducing a chronic infection triggers the production of type I cytokines during the early stage of infection, followed by the secretion of type II cytokines in the late/chronic phase of the disease. In contrast, WT-infected mice are killed within 5 weeks and remain locked in a type I cytokine response.

The

to

type I/type II cytokine balance may influence the development of different

subsets of suppressive macrophages, i.e. classically activated macrophages (type I) versus alternatively activated macrophages (type II) that are antagonistically regulated. Therefore, the phenotype and accessory cell function of macrophages elicited during WT and PLC(-/-) T.b. brucei infections were addressed. Results indicate that classically activated macrophages develop in a type I cytokine environment in the early phase of both WT and PLC(-/-) trypanosome infections. In the late stage of infection, only PLC(-/-)-infected mice resisting the infection develop type II cytokine-associated alternative macrophages. In parallel, we found that mice susceptible to Trypanosoma congolense infection, showing an exponential parasite growth until they die, have a higher

of type II cytokines in the early stage of infection than resistant animals controlling the first peak of parasitaemia. The levels of type I cytokines were comparable in both T. congolense-resistant and -susceptible

mice. On the basis of these results, we propose that survival to African trypanosome infection requires a type I cytokine environment and classical

macrophage activation in the early stage of infection, enabling mice to control the first peak of parasitaemia. Thereafter, a switch to type II cytokine environment triggering alternative macrophage activation is required to enable progression of the disease into the chronic phase. The possible role of the sequential activation of alternative macrophages in the late/chronic stage of infection in the increased resistance of mice

PLC(-/-) T. b. brucei will be discussed.

L74 ANSWER 2 OF 10 MEDLINE DUPLICATE 2
2001161118 Document Number: 21158235. PubMed ID: 11261785. Alternative
versus classical macrophage activation during experimental African
trypanosomosis. Namangala B; De Baetselier P; Noel W; Brys L; Beschin
A. (Department of Immunology, Parasitology and Ultrastructure,
Flemish Interuniversity Institute for Biotechnology, Free University
Brussels (VUB), St-Genesius-Rode, Belgium.) JOURNAL OF LEUKOCYTE
BIOLOGY,

(2001 Mar) 69 (3) 387-96. Journal code: IWY; 8405628. ISSN: 0741-5400. Pub. country: United States. Language: English.

AB The type I/type II cytokine balance may influence the development of different subsets of suppressive macrophages, i.e., classically activated macrophages (caMphi, type I) versus alternatively activated macrophages (aaMphi, type II). Recently, we showed that although mice infected with phospholipase C-deficient (PLC-/-) Trypanosoma brucei

exhibit a clear shift from type I to the type II cytokine production, wild

type (WT)-infected mice remain locked in a type I cytokine response. In the present study, phenotype and accessory cell function of macrophages elicited during WT and PLC-/- T. b. brucei infection were compared. Results indicate that caMphi develop in a type I cytokine environment in the early phase of WT and PLC-/- trypanosome infection, correlating with inhibition of T cell activation triggered by a mitogen, a superantigen,

or

an antigen. In the late stage of infection, only PLC(-/-)-infected mice resisting the infection develop type II cytokine-associated aaMphi correlating with impaired antigen- but not mitogen- or superantigen-induced T cell activation.

L74 ANSWER 3 OF 10 BIOSIS COPYRIGHT 2001 BIOSIS
2000:468108 Document No.: PREV200000468108. Coelomic mitogenic factor of
Eisenia foetida earthworm. Cylkova, R. (1); De Baetselier, P.;
Beschin, A.; Bilej, M. (1). (1) Department of Immunology, Academy
of Sciences, Institute of Microbiology, Prague Czech Republic. Immunology
Letters, (September, 2000) Vol. 73, No. 2-3, pp. 171. print. Meeting
Info.: 24th European Immunology Meeting of the European Federation of
Immunological Societies (EFIS) Poznan, Poland September 23-26, 2000
European Federation of Immunological Societies. ISSN: 0165-2478.
Language:

English. Summary Language: English.

- L74 ANSWER 4 OF 10 BIOSIS COPYRIGHT 2001 BIOSIS
 2000:361806 Document No.: PREV200000361806. Interaction of hemolytic and cytolytic molecules in Eisenia fetida earthworm. Bilej, M. (1);

 Beschin, A.; Kohlerova, P. (1); De Baetselier, P.; Mohrig, W.;

 Kauschke, E.. (1) Department of Immunology, Institute of Microbiology, Prague Czech Republic. Developmental & Comparative Immunology, (2000)
 Vol.
 - 24, No. Supplement 1, pp. S98. print. Meeting Info.: 8th Congress of the International Society of Developmental and Comparative Immunology Cairns, Australia July 03-06, 2000 ISSN: 0145-305X. Language: English. Summary Language: English.
- L74 ANSWER 5 OF 10 BIOSIS COPYRIGHT 2001 BIOSIS 2000:361800 Document No.: PREV200000361800. Recognition of protein antigens in

earthworms. Bilej, M. (1); Cylkova, R. (1); Kohlerova, P. (1); De Baetselier, P.; Beschin, A.; Tuckova, L. (1). (1) Department of Immunology, Institute of Microbiology, Prague Czech Republic. Developmental & Comparative Immunology, (2000) Vol. 24, No. Supplement 1, pp. S95. print. Meeting Info.: 8th Congress of the International Society of Developmental and Comparative Immunology Cairns, Australia July 03-06, 2000 ISSN: 0145-305X. Language: English. Summary Language: English.

L74 ANSWER 6 OF 10 BIOSIS COPYRIGHT 2001 BIOSIS 2000:361789 Document No.: PREV200000361789. Identification of distinct pattern

recognition domains in earthworm defense molecule. Bilej, M. (1); Van Dijck, E.; De Baetselier, P.; Beschin, A.. (1) Department of Immunology, Institute of Microbiology, Prague Czech Republic. Developmental & Comparative Immunology, (2000) Vol. 24, No. Supplement 1, pp. S91. print. Meeting Info.: 8th Congress of the International Society

Page 13

Prepared by M. Hale 308-4258

of Developmental and Comparative Immunology Cairns, Australia July 03-06, 2000 ISSN: 0145-305X. Language: English. Summary Language: English.

L74 ANSWER 7 OF 10 BIOSIS COPYRIGHT 2001 BIOSIS
2000:370338 Document No.: PREV200000370338. Evidence for phenoloxidase activity in Eisenia foetida (Earthworm. Kohlerova, P. (1);

Beschin, A.; Stijlemans, B.; De Baetselier, P.; Bilej, M. (1). (1)

Department of Immunology, Institute of Microbiology, Prague Czech Republic. Developmental & Comparative Immunology, (2000) Vol. 24, No. Supplement 1, pp. S57. print. Meeting Info.: 8th Congress of the International Society of Developmental and Comparative Immunology Cairns, Australia July 03-06, 2000 ISSN: 0145-305X. Language: English. Summary Language: English.

L74 ANSWER 8 OF 10 MEDLINE DUPLICATE 3
1999270983 Document Number: 99270983. PubMed ID: 10338530. Tumor
necrosis

factor alpha is a key mediator in the regulation of experimental Trypanosoma brucei infections. Magez S; Radwanska M; Beschin A; Sekikawa K; De Baetselier P. (Laboratory of Cellular Immunology, Flanders Interuniversity Institute for Biotechnology, Free University of Brussels (Vrije Universiteit Brussel), Brussels, Belgium.. stemagez@vub.ac.be). INFECTION AND IMMUNITY, (1999 Jun) 67 (6) 3128-32. Journal code: GO7; 0246127. ISSN: 0019-9567. Pub. country: United States. Language: English. In order to evaluate during experimental Trypanosoma brucei infections

potential role of tumor necrosis factor alpha (TNF-alpha) in the host-parasite interrelationship, C57BL/6 TNF-alpha knockout mice (TNF-alpha-/-) as well as C57BL/6 wild-type mice were infected with pleomorphic T. brucei AnTat 1.1 E parasites. In the TNF-alpha-/- mice, the peak levels of parasitemia were strongly increased compared to the peak levels recorded in wild-type mice. The increased parasite burden did not reflect differences in clearance efficacy or in production of T. brucei-specific immunoglobulin M (IgM) and IgG antibodies. Trypanosome-mediated immunopathological features, such as lymph node-associated immunosuppression and lipopolysaccharide hypersensitivity,

were found to be greatly reduced in infected TNF-alpha-/- mice. These results demonstrate that, during trypanosome infections, TNF-alpha is a key mediator involved in both parasitemia control and infection-associated pathology.

L74 ANSWER 9 OF 10 MEDLINE DUPLICATE 4 1999163627 Document Number: 99163627. PubMed ID: 10065744. Identification

of a coelomic mitogenic factor in **Eisenia** foetida earthworm. Hanusova R; Bilej M; Brys L; De-Baetselier P; **Beschin A**. (Department of Immunology, Institute of Microbiology, Academy of Sciences of the Czech Republic, Prague.) IMMUNOLOGY LETTERS, (1999 Feb) 65 (3) 203-11. Journal code: GIH; 7910006. ISSN: 0165-2478. Pub. country: Netherlands. Language: English.

AB Coelomic fluid of earthworms **Eisenia** foetida (Oligochaeta, Annelida) exerts a mitogenic activity on murine splenocytes. Total coelomic fluid was subjected to size-exclusion chromatography and a

Page 14

4)

AB the

Prepared by M. Hale 308-4258

semi-purified mitogenic fraction (fraction 5) was isolated and further characterized. Both coelomic fluid and the semi-purified fraction 5 block concanavalin A (ConA)-induced spleen cell proliferation but exert a synergistic effect on LPS-triggered spleen cell proliferation. Using a polyclonal antiserum neutralizing the mitogenic activity of the semi-purified fraction 5, a 60-kDa component was identified and named CMF (coelomic mitogenic factor). CMF was found to bind ConA which could account for its ability to inhibit ConA-induced spleen cell proliferation.

CMF is present in the coelomic fluid as a trimer of a 20-kDa protein. N-terminal amino acid sequence of monomeric CMF reveals partial sequence homology with phospholipase A2 (PLA2). Moreover, CMF-enriched coelomic fluid fraction 5 exerts phospholipase activity comparable with that of bovine pancreatic PLA2. Our results suggest that coelomic fluid of E. foetida contains a ubiquitous PLA2-like enzyme which might be involved in immune reactions in earthworms such as anti-bacterial mechanisms.

L74 ANSWER 10 OF 10 BIOSIS COPYRIGHT 2001 BIOSIS
1994:379602 Document No.: PREV199497392602. Identification of TNF-like
activity in earthworms. Bilej, M.; Lucas, R.; Brys, L.; Beschin,
A.; Magez, S.; De Baetselier, P.. Dep. Immunol., Inst. Microbiol.,
142 20 Prague, CRK. European Cytokine Network, (1994) Vol. 5, No. 2, pp.
99. Meeting Info.: 5th International Congress on Tumor Necrosis Factor
Monterey, California, USA May 30-June 3, 1994 ISSN: 1148-5493. Language:
English.

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ANSWER 1 OF 1 BIOSIS COPYRIGHT 2001 BIOSIS

1998:480950 BIOSIS ACCESSION NUMBER: PREV199800480950 DOCUMENT NUMBER:

TITLE: Identification and cloning of a glucan- and

lipopolysaccharide-binding protein from Eisenia foetida earthworm involved in the activation of prophenoloxidase cascade.

AUTHOR(S):

Beschin, Alain (1); Bilej, Martin; Hanssens, Filip; Raymakers, Jos; Van Dyck, Els; Revets, Hilde; Brys, Lea; Gomez, Julio; De Baetselier, Patrick; Timmermans, Miet (1) Unit Cellular Immunol., Flemish Internative Inst.

CORPORATE SOURCE: Biotechnol., VIB-VUB, Paardenstraat 65, B-1640 St-Genesius-Rode Belgium

Journal of Biological Chemistry, (Sept. 18, 1998) Vol. 273, SOURCE:

No. 38, pp. 24948-24954.

ISSN: 0021-9258.

DOCUMENT TYPE: Article LANGUAGE: English

=>

L10 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2001 BIOSIS

2000:398292 BIOSIS ACCESSION NUMBER: PREV200000398292 DOCUMENT NUMBER:

A lipopolysaccharide- and beta-1,3-glucan-TITLE:

binding protein from hemocytes of the freshwater crayfish Pacifastacus leniusculus: Purification,

characterization, and cDNA cloning.

Lee, So Young; Wang, Ruigong; Soderhall, Kenneth (1) AUTHOR(S):

(1) Department of Comparative Physiology, Evolutionary CORPORATE SOURCE:

Biology Center, Uppsala University, Norbyvagen 18A,

S-75236, Uppsala Sweden

Journal of Biological Chemistry, (January 14, 2000) Vol. SOURCE:

275, No. 2, pp. 1337-1343. print.

ISSN: 0021-9258.

DOCUMENT TYPE: Article LANGUAGE:

English SUMMARY LANGUAGE: English

L10 ANSWER 2 OF 3 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1998:480950 BIOSIS DOCUMENT NUMBER: PREV199800480950

Identification and cloning of a glucan- and TITLE: lipopolysaccharide-binding protein from Eisenia foetida earthworm involved in the activation of

prophenoloxidase cascade.

AUTHOR (S): Beschin, Alain (1); Bilej, Martin; Hanssens, Filip;

Raymakers, Jos; Van Dyck, Els; Revets, Hilde; Brys, Lea; Gomez, Julio; De Baetselier, Patrick; Timmermans, Miet (1) Unit Cellular Immunol., Flemish Interuniversity Inst.

Biotechnol., VIB-VUB, Paardenstraat 65, B-1640

St-Genesius-Rode Belgium

SOURCE: Journal of Biological Chemistry, (Sept. 18, 1998) Vol. 273,

No. 38, pp. 24948-24954.

ISSN: 0021-9258.

DOCUMENT TYPE:

CORPORATE SOURCE: .

Article LANGUAGE: English

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1999:405076 CAPLUS

DOCUMENT NUMBER: 131:41281

TITLE: Earthworm coelomic cytolytic factor CCF-1 and

treatment of cancer and trypanosomal or bacterial

infection

INVENTOR(S): De Baetselier, Patrick

PATENT ASSIGNEE(S): Vlaams Interuniversitair Instituut voor Biotechnologie

Vzw., Belg.

PCT Int. Appl., 49 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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W	0 9931	229		A	3	1999	0826											
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		DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	
		ΚE,	KG,	KP,	KR,	ΚΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	
		MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	
		TR,	TT,	UA,	UG,	US,	UZ,	VN,	YU,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	
		ТJ,	TM															
	RW:	GH.	GM.	KE.	LS.	MW.	SD.	SZ.	IIG.	7.W.	AΤ.	BE.	CH.	CY.	DE.	DK.	ES.	

FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
A1 19990705 AU 1999-21616 19981216 AU 1999-21616 19981216 EP 1998-965828 19981216 AU 9921616 A2 20001011 EP 1042475 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

PRIORITY APPLN. INFO.: EP 1997-203974 A 19971217

WO 1998-EP8169 W 19981216

ANSWER 1 OF 83 USPATFULL

ACCESSION NUMBER: 2001:51823 USPATFULL

TITLE:

Protease

Natori, Shunji, Ibaraki Pref., Japan INVENTOR(S):

University of Tokyo, Tokyo, Japan (non-U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE ______ US 6214599 B1 20010410 US 2000-515039 20000306 PATENT INFORMATION: 20000306 (9)

APPLICATION INFO.:

Division of Ser. No. US 1998-120365, filed on 22 Jul RELATED APPLN. INFO.:

1998

NUMBER DATE ------JP 1997-333474 19971118 PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Saidha, Tekchand

LEGAL REPRESENTATIVE: Venable, Schneller, Marina V.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 26 Drawing Figure(s); 25 Drawing Page(s)

1310 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 2 OF 83 CABA COPYRIGHT 2001 CABI ACCESSION NUMBER: 2001:106738 CABA

DOCUMENT NUMBER: 20013099900

TITLE: Estimates of nutritive value of Venezuelan feed

resources destined for monogastric animals

Algunos aspectos del valor nutritivo de alimentos venezolanos destinados a animales monogastricos

Gonzalvo, S.; Nieves, D.; Ly, J.; Macias, M.; Caron, AUTHOR:

M.; Martinez, V.

CORPORATE SOURCE: Instituto de Investigaciones Porcinas, Gaveta Postal

1, Punta Brava, La Habana 1920, Cuba.

Livestock Research for Rural Development, (2001) SOURCE:

Vol. 13, No. 2, pp. 1-7. 15 ref.

ISSN: 0121-3784

DOCUMENT TYPE: Journal LANGUAGE: Spanish English SUMMARY LANGUAGE:

ANSWER 3 OF 83 USPATFULL L8

ACCESSION NUMBER: 2000:105699 USPATFULL

TITLE:

Protease

Natori, Shunji, Tone-Machi, Japan INVENTOR(S):

PATENT ASSIGNEE(S): The University of Tokyo, Tokyo, Japan (non-U.S.

corporation)

NUMBER KIND DATE ______ US 6103514 US 1998-120365 20000815 PATENT INFORMATION: 19980722 (9) APPLICATION INFO.:

NUMBER DATE _____ PRIORITY INFORMATION: JP 1997-333474 19971118

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Wax, Robert A.

LEGAL REPRESENTATIVE: Venable

NUMBER OF CLAIMS: 6 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 26 Drawing Figure(s); 25 Drawing Page(s)

3357 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 4 OF 83 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 2000:504890 CAPLUS

133:192617 DOCUMENT NUMBER:

"In situ" vermicomposting of biological sludges and TITLE:

impacts on soil quality

Masciandaro, G.; Ceccanti, B.; Garcia, C. AUTHOR(S):

CNR, Istituto Chimica del Terreno, Pisa, I-56127, CORPORATE SOURCE:

Italy

Soil Biol. Biochem. (2000), 32(7), 1015-1024 SOURCE:

CODEN: SBIOAH; ISSN: 0038-0717

Elsevier Science Ltd. PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 38

(5) Ayuso, M; Soil Science and Plant Nutrition 1996, REFERENCE(S): V42, P105 CAPLUS

> (6) Bastian, R; Utilization, Treatment and Disposal of Waste on Land 1986, P217 CAPLUS

(7) Beloso, M; Bioresource Technology 1993, V45, P123 CAPLUS

(9) Bolton, H; Soil Biology and Biochemistry 1985, V17, P297 CAPLUS

(12) Ceccanti, B; Humic Substances in the Global Environment and Implication on Human Health 1994, P1279 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 5 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS 1.8

2001:27752 BIOSIS ACCESSION NUMBER: DOCUMENT NUMBER: PREV200100027752

TITLE:

Physical mapping of rDNA genes, (TTAGGG)n telomeric sequence and other karyological features in two earthworms

of the family Lumbricidae (Annelida: Oligochaeta.

Vitturi, Roberto (1); Colomba, Maria Stella; Pirrone, Anna; AUTHOR(S):

Libertini, Angelo

CORPORATE SOURCE: (1) Dipartimento di Biologia Animale, Universita di

Palermo, Via Archirafi 18, 90123, Palermo:

zuvitcol@unipa.it Italy

Heredity, (September, 2000) Vol. 85, No. 3, pp. 203-207. SOURCE:

print.

ISSN: 0018-067X.

DOCUMENT TYPE: Article English LANGUAGE: SUMMARY LANGUAGE: English

CAPLUS COPYRIGHT 2001 ACS ANSWER 6 OF 83 18 ACCESSION NUMBER: 1999:711090 CAPLUS

DOCUMENT NUMBER: 132:31900

Heavy metals accumulated from composted sewage sludges TITLE:

by Eisenia fetida earthworm

AUTHOR(S): Filipek-Mazur, Barbara; Mazur, Kazimierz; Gondek,

Krzysztof

Katedra Chemii Rolnej, Akad. Rolnicza, Krakow, 31-120, CORPORATE SOURCE:

Pol.

SOURCE: Folia Univ. Agric. Stetin. (1999), 200, 99-104

CODEN: FUASFI

Wydawnictwo Akademii Rolniczej w Szczecinie PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: Polish

ANSWER 7 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1998:777981 CAPLUS

DOCUMENT NUMBER:

130:114454

TITLE:

Chemical evaluation of the use of earthworms (Eisenia

fetida) for the agricultural recycling of sludge from

sewage treatment plants

AUTHOR(S):

Kotowska, Janina; Kotowski, Janusz F.

CORPORATE SOURCE:

Katedra Chemii Ogolnej, Akademia Rolnicza, Szezecin,

Pol.

SOURCE:

Chem. Inz. Ekol. (1998), 5(3), 179-185

CODEN: CIEKFX; ISSN: 1231-7098

PUBLISHER:

Towarzystwo Chemii i Inzynierii Ekologicznej

DOCUMENT TYPE:

Journal Polish

LANGUAGE:

ANSWER 8 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1997:411922 BIOSIS DOCUMENT NUMBER:

PREV199799703965

TITLE:

Interaction of earthworm hemolysin with lipid membranes

requires sphingolipids.

AUTHOR(S):

Lange, Sven; Nuessler, Frank; Kauschke, Ellen; Lutsch, Gudrun; Cooper, Edwin L.; Herrmann, Andreas (1)

CORPORATE SOURCE:

(1) Humboldt-Universitaet zu Berlin, Mathematisch-Naturwissenschaftliche Fakultaet I, Institut fuer

Biologie/Biophysik, Invalidenstrasse 43, D-10115 Berlin

SOURCE:

Journal of Biological Chemistry, (1997) Vol. 272, No. 33,

pp. 20884-20892.

ISSN: 0021-9258.

DOCUMENT TYPE:

Article English

LANGUAGE:

ANSWER 9 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1997:771792 CAPLUS

DOCUMENT NUMBER:

128:44759

TITLE:

Multispecies toxicity assessment of compost produced

in bioremediation of an explosives-contaminated

sediment

AUTHOR(S):

Gunderson, Carla A.; Kostuk, Joanne M.; Gibbs,

Mitchell H.; Napolitano, Guillermo E.; Wicker, Linda

F.; Richmond, Jacqueline E.; Stewart, Arthur J.

Environmental Sciences Division, Oak Ridge National CORPORATE SOURCE: Laboratory, Oak Ridge, TN, 37831-6422, USA

Environ. Toxicol. Chem. (1997), 16(12), 2529-2537 CODEN: ETOCDK; ISSN: 0730-7268

PUBLISHER:

SOURCE:

SETAC Press Journal

DOCUMENT TYPE: LANGUAGE:

English

ANSWER 10 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: DOCUMENT NUMBER:

1997:471036 CAPLUS

TITLE:

127:158408

Purification and determination of partial sequence of

earthworm fibrinolytic enzyme

AUTHOR(S):

Xiong, Yi; Yang, Si-Cheng; Liu, Xiao-Ying; Li,

Ling-Yuan; Ru, Bing-Gen

CORPORATE SOURCE:

Coll. Life Sci., Peking Univ., Beijing, 100871, Peop.

Rep. China

SOURCE:

Shengwu Huaxue Zazhi (1997), 13(3), 292-296

CODEN: SHZAE4; ISSN: 1000-8543

PUBLISHER:

Zhongguo Shengwu Huaxue Yu Fenzi Shengwu Xuehui

DOCUMENT TYPE:

Journal

LANGUAGE: Chinese

ANSWER 11 OF 83 CABA COPYRIGHT 2001 CABI

1998:35050 CABA ACCESSION NUMBER:

981401991 DOCUMENT NUMBER:

Earthworm as a potential protein resource TITLE:

Sun ZhenJun; Liu XianChun; Sun LiHui; Song ChunYang; AUTHOR:

Sun, Z. J.; Liu, X. C.; Sun, L. H.; Song, C. Y.;

Paoletti, M. G. [EDITOR]; Bukkens, S. G. F. [EDITOR]

Institute of Agroecology, China Agricultural CORPORATE SOURCE:

University, 100 094 Beijing, China.

Ecology of Food and Nutrition, (1997) Vol. 36, No. SOURCE:

2/4, pp. 221-236. 44 ref. Meeting Info.: Minilivestock.

ISSN: 0367-0244

DOCUMENT TYPE:

Journal English LANGUAGE:

ANSWER 12 OF 83 CAPLUS COPYRIGHT 2001 ACS

1997:611127 CAPLUS ACCESSION NUMBER:

127:216321 DOCUMENT NUMBER:

Study of the interaction between metribuzin herbicide TITLE:

and humic acid from vermicompost

Landgraf, Maria Diva; Alves, Mirian Ribeiro; Rezende, AUTHOR(S):

Maria Olimpia O.

Inst. Quim. Sao Carlos, Univ. Sao Paulo, Sao Carlos, CORPORATE SOURCE:

Brazil

An. Assoc. Bras. Quim. (1997), 46(3), 176-183 SOURCE:

CODEN: AABQAL; ISSN: 0365-0073 Associacao Brasileira de Quimica

PUBLISHER: DOCUMENT TYPE: Journal

Portuguese LANGUAGE:

ANSWER 13 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1997:359911 BIOSIS DOCUMENT NUMBER: PREV199799666314

Physicochemical characterization of humic acid extracted TITLE:

from vermicomposting obtained by animal manure.

Landgraf, Maria Diva; Rezende, Maria Olimpiia De O. AUTHOR(S):

instituto Quimica Sao Carlos, Univ. Sao Paulo, Caixa Postal CORPORATE SOURCE:

780, Sao Carlos, SP 13560-970 Brazil

Ciencia e Cultura (Sao Paulo), (1997) Vol. 49, No. 1-2, pp. SOURCE:

117-120.

ISSN: 0009-6725.

DOCUMENT TYPE: Article English LANGUAGE:

SUMMARY LANGUAGE: English; Portuguese

L8 ANSWER 14 OF 83 CAPLUS COPYRIGHT 2001 ACS 1997:709023 CAPLUS ACCESSION NUMBER:

127:356154 DOCUMENT NUMBER:

Interaction of humic acid in vermicompost with TITLE:

pesticides

AUTHOR(S): Landgraf, M. D.; Rezende, M. O. O.

Instituto De QUIMICA De Sao Carlos-USP, S. Carlos, CORPORATE SOURCE:

Brazil

An. Reun. Nac. Microbiol. Apl. Meio Ambiente, 1st SOURCE:

(1997), Meeting Date 1996, 97-104. Editor(s):

Esposito, Elisa. Instituto de Quimica, Universidade

Estadual de Campinas: Campinas, Brazil.

CODEN: 65FRAH

DOCUMENT TYPE: Conference

LANGUAGE: Portuguese L8 ANSWER 15 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1998:295933 BIOSIS DOCUMENT NUMBER: PREV199800295933

TITLE: Bacteriology of laying hens' manure, composting and

Eisenia foetida (Oligochaeta:

Lumbricidae.

AUTHOR(S): Rodriguez, Claudia (1); Finola, Monica; Beoletto, Viviana;

Basualdo, Claudia

CORPORATE SOURCE: (1) Dep. Produccion Animal, Facultad Agronomia Veterinaria,

Univ. Nacional Rio Cuarto, 5800 Rio Cuarto, Cordoba

Argentina

SOURCE: Megadrilogica, (Dec., 1997) Vol. 7, No. 3, pp. 21-27.

ISSN: 0380-9633.

DOCUMENT TYPE:

Article

LANGUAGE:

English

SUMMARY LANGUAGE: English; Spanish

L8 ANSWER 16 OF 83 USPATFULL

ACCESSION NUMBER: 96:106200 USPATFULL

TITLE: Lumbricus product and method of making same

INVENTOR(S): Charter, Edward A., 2354 Anora Dr., Abbotsford, British

Columbia, Canada V2S 5P8

Lee, Seung H., 31212 Peardonville Rd., Abbotsford,

British Columbia, Canada V25 5W6

NUMBER KIND DATE

PATENT INFORMATION: US 5576026 19961119
APPLICATION INFO.: US 1994-316110 19940930 (8)

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Lilling, Herbert J. LEGAL REPRESENTATIVE: Hughes, Robert B.

NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
LINE COUNT: 378

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 17 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1996:475638 BIOSIS DOCUMENT NUMBER: PREV199699205194

TITLE: Actinomycetes in the intestinal tract of soil invertebrates

fed with vermicompost or litter.

AUTHOR(S): Zenova, G. M.; Babkina, N. I.; Polyanskaya, L. M.;

Zvyagintsev, D. G.

CORPORATE SOURCE: M.V. Lomonosov Mosc. State Univ., Moscow 119899 Russia

SOURCE: Mikrobiologiya, (1996) Vol. 65, No. 3, pp. 409-415.

ISSN: 0026-3656.

DOCUMENT TYPE:

Article Russian

LANGUAGE: SUMMARY LANGUAGE:

Russian; English

L8 ANSWER 18 OF 83 SCISEARCH COPYRIGHT 2001 ISI (R)

ACCESSION NUMBER: 96:515702 SCISEARCH

THE GENUINE ARTICLE: UV387

TITLE: ACTINOMYCETES IN THE INTESTINAL-TRACT OF SOIL

INVERTEBRATES FED WITH VERMICOMPOST OR LITTER

AUTHOR: ZENOVA G M (Reprint); BABKINA N I; POLYANSKAYA L M;

ZVYAGINTSEV D G

CORPORATE SOURCE: MOSCOW MV LOMONOSOV STATE UNIV, MOSCOW 119899, RUSSIA

(Reprint)

COUNTRY OF AUTHOR: RUSSIA

SOURCE: MICROBIOLOGY, (MAY/JUN 1996) Vol. 65, No. 3, pp. 360-365.

ISSN: 0026-2617.

DOCUMENT TYPE:

Article; Journal

FILE SEGMENT:

LIFE ENGLISH

LANGUAGE:

20

REFERENCE COUNT:

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

ACCESSION NUMBER:

ANSWER 19 OF 83 CAPLUS COPYRIGHT 2001 ACS

1997:736942 CAPLUS

DOCUMENT NUMBER:

127:345543

TITLE:

Chemical composition of earthworm (

Eisenia foetida and Lumbricus

rubellus) silages

AUTHOR(S):

Ortega Cerrilla, Esther; Reyes Ortigoza, Amada Laura;

Mendoza Martinez, German

CORPORATE SOURCE:

Programa de Ganaderia, Montecillo, Edo. de Mexico,

Mex.

SOURCE:

Arch. Latinoam. Nutr. (1996), 46(4), 325-328

CODEN: ALANBH; ISSN: 0004-0622

PUBLISHER:

Sociedad Latinoamericana de Nutricion

DOCUMENT TYPE:

Journal Spanish

LANGUAGE:

1.8

ANSWER 20 OF 83 SCISEARCH COPYRIGHT 2001 ISI (R)

ACCESSION NUMBER:

96:882946 SCISEARCH

THE GENUINE ARTICLE: VU805

TITLE:

The effects of metal contamination on earthworm

populations around a smelting works: Quantifying species

effects

AUTHOR:

Spurgeon D J (Reprint); Hopkin S P

CORPORATE SOURCE:

UNIV READING, SCH ANIM & MICROBIAL SCI, ECOTOXICOL RES GRP, POB 228, READING RG6 6AJ, BERKS, ENGLAND (Reprint)

COUNTRY OF AUTHOR:

ENGLAND

SOURCE:

APPLIED SOIL ECOLOGY, (SEP 1996) Vol. 4, No. 2, pp.

147-160.

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE

AMSTERDAM, NETHERLANDS.

ISSN: 0929-1393.

DOCUMENT TYPE:

Article; Journal AGRI

FILE SEGMENT:

LANGUAGE:

English

REFERENCE COUNT:

72

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L8 ACCESSION NUMBER:

ANSWER 21 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

DOCUMENT NUMBER:

1996:359111 BIOSIS

PREV199699081467

TITLE: AUTHOR(S): Bacterial communities associated with soil invertebrates. Tret'yakova, E. B.; Dobrovol'skaya, T. G.; Byzov, B. A.;

Zvyagintsev, D. G.

CORPORATE SOURCE:

M.V. Lomonosov Mosc. State Univ., Moscow 119899 Russia

SOURCE:

Mikrobiologiya, (1996) Vol. 65, No. 1, pp. 102-110.

ISSN: 0026-3656.

DOCUMENT TYPE:

Article

LANGUAGE:

Russian

SUMMARY LANGUAGE:

Russian; English

 18 ACCESSION NUMBER:

ANSWER 22 OF 83 CABA COPYRIGHT 2001 CABI 1998:6287 CABA

DOCUMENT NUMBER:

971413051

TITLE:

Possibility of using some invertebrates as feed

sources

Bazi omurgasiz hayvanlardan yem kaynagi olarak

yararlanma olanaklari

AUTHOR:

Akkan, S.; Alcicek, A.

CORPORATE SOURCE: Zootekni Bolumu, Bornova, Izmir, Turkey.

SOURCE: Ege Universitesi Ziraat Fakultesi Dergisi, (1995)

Vol. 32, No. 3, pp. 205-209. 7 ref.

ISSN: 1018-8851

DOCUMENT TYPE: Journal LANGUAGE: Turkish SUMMARY LANGUAGE: English

L8 ANSWER 23 OF 83 CABA COPYRIGHT 2001 CABI ACCESSION NUMBER: 97:148658 CABA

DOCUMENT NUMBER: 971411853

TITLE: Producing a feed additive on the basis of sunflower

shell

AUTHOR: Kulik, A. P.; Garmash, S. N.; Buleiko, S. Yu.;

Polishchuk, N. B.; Chernyshova, T. P.

CORPORATE SOURCE: Ukrainian State University of Chemical Technology,

Prospekt Gagarina, 8, Dnepropetrovsk 320005,

Ukraine.

SOURCE: Ecology of Industrial Regions, (1995) Vol. 1, No.

1/2, pp. 111-115. 13 ref.

DOCUMENT TYPE: Journal LANGUAGE: English SUMMARY LANGUAGE: Ukrainian

L8 ANSWER 24 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1995:250468 BIOSIS DOCUMENT NUMBER: PREV199598264768

TITLE: On genetic diversity of Eisenia foetida

(Sav.

AUTHOR(S): Bolotetskii, N. M.; Kodolova, O. P.; Pravdukhina, O. Yu. CORPORATE SOURCE: Fac. Biol., M.V. Lomonosov Mosc. State Univ., Moscow Russia SOURCE: Izvestiya Akademii Nauk Seriya Biologicheskaya (Moscow),

(1994) Vol. 0, No. 3, pp. 404-410.

DOCUMENT TYPE: Article LANGUAGE: Russian

SUMMARY LANGUAGE: Russian; English

L8 ANSWER 25 OF 83 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1994:408049 CAPLUS

DOCUMENT NUMBER: 121:8049

TITLE: Effect of earthworm on soil chemical properties AUTHOR(S): Sasaki, Hideaki; Ando, Ho; Kobayashi, Shiro

CORPORATE SOURCE: Fac. Agric., Yamagata Univ., Tsuruoka, 997, Japan SOURCE: Nippon Dojo Hiryogaku Zasshi (1994), 65(2), 184-6

CODEN: NIDHAX; ISSN: 0029-0610

DOCUMENT TYPE: Journal LANGUAGE: Japanese

L8 ANSWER 26 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1996:325577 BIOSIS DOCUMENT NUMBER: PREV199699047933

TITLE: Elemental composition and spectrophotometric

characteristics of humic acids extracted from

vermicomposts.

AUTHOR(S): Kalembasa, Stanislaw; Kalembasa, Dorota; Makowiecki,

Krzysztof; Godlewska, Agnieszka

CORPORATE SOURCE: Soil Sci. Plant Nutr. Dep., Agric. Pedagogical Univ., B.

Prusa 14, 08-110 Siedlce Poland

SOURCE: Polish Journal of Soil Science, (1994) Vol. 27, No. 2, pp.

93-101.

ISSN: 0079-2985.

DOCUMENT TYPE: Article LANGUAGE: English

SUMMARY LANGUAGE: English; Polish

L8 ANSWER 27 OF 83 USPATFULL

ACCESSION NUMBER: 93:12304 USPATFULL

TITLE: Therapeutic medicament for thrombosis

INVENTOR(S): Ishii, Yoichi, Miyazaki, Japan Mihara, Hisashi, Miyazaki, Japan

Ho, Lee M., Seoul, Korea, Republic of

Kimura, Goro, Kamakura, Japan

PATENT ASSIGNEE(S): Eimei Company Ltd., Miyazaki, Japan (non-U.S.

corporation)

APPLICATION INFO.: US 1991-807406 19911212

RELATED APPLN. INFO.: Continuation of Ser. No. US 1990-475021, filed on 5 Feb

1990, now abandoned

NUMBER DATE

PRIORITY INFORMATION: JP 1989-33701 19890215 JP 1989-107250 19890428

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Naff, David M. ASSISTANT EXAMINER: Witz, Jean C.

LEGAL REPRESENTATIVE: Wyatt, Gerber, Burke and Badie

NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
LINE COUNT: 1445

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 28 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1994:516737 CAPLUS

DOCUMENT NUMBER: 121:116737

TITLE: Content of carbon and nitrogen in alkaline extracts of

biohumus produced from organic wasted

AUTHOR(S): Kalembasa, Dorota; Kalembasa, Stainslaw; Makowiecki,

Krzysztof; Godlewska, Agnieszka

CORPORATE SOURCE: Dep. Soil Sci. and Agric. Chem., Agric.-Pedagogical

Univ., Siedlce, 08-110, Pol.

SOURCE: Zesz. Probl. Postepow Nauk Roln. (1993), 409 167-74

CODEN: ZPPRAW; ISSN: 0084-5477

DOCUMENT TYPE:

LANGUAGE: Polish

L8 ANSWER 29 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1994:516736 CAPLUS

DOCUMENT NUMBER: 121:116736

TITLE: Chemical composition, nitrogen and carbon

Journal

fractions of biohumus produced from waste sludges

AUTHOR(S): Kalembasa, S.; Makowiecki, K.; Kalembasa, D.

CORPORATE SOURCE: Dep. Soil Sci. and Agricultural Chem.,

Agricultural-Pedagogical Univ., Siedlce, 08-110, Pol. SOURCE: Zesz. Probl. Postepow Nauk Roln. (1993), 409 159-66

CODEN: ZPPRAW; ISSN: 0084-5477

DOCUMENT TYPE: Journal

LANGUAGE: Polish

L8 ANSWER 30 OF 83 CABA COPYRIGHT 2001 CABI

ACCESSION NUMBER: 96:62572 CABA

DOCUMENT NUMBER: 961300954

TITLE: Recycling of organic wastes byEisenia foetida

(Annelida - Ologichaeta)

Reciclagem de residuo organico por Eisenia

foetida (Annelida - Ologichaeta)

Moreira, H. M.; Silva, V. P. da; Sachwen, A. V.; AUTHOR:

Junior, V. L. D.; Da Silva, V. P.

Titular de Zoologia da Universidade de Marilia -CORPORATE SOURCE:

UNIMAR - Marilia (SP) Brasil.

SOURCE:

UNIMAR Ciencias, (1993) Vol. 1, pp. 48-51. 8 ref.

DOCUMENT TYPE: LANGUAGE:

Journal Portuguese

SUMMARY LANGUAGE:

English

ANSWER 31 OF 83 USPATFULL

ACCESSION NUMBER:

92:55310 USPATFULL

TITLE:

Process for the production of dried earthworm powder and antihyperlipemic, antidiabetic, antihypertensive and antihypotensive preparations containing dried

earthworm powder as active ingredient

INVENTOR(S):

Ishii, Yoichi, Miyazaki, Japan Mihara, Hisashi, Miyazaki, Japan

PATENT ASSIGNEE(S):

Eimei Company, Ltd., Miyazaki, Japan (non-U.S.

corporation)

NUMBER KIND DATE ________ US 5128148 19920707 .US 1991-641519 19910115. (7) PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.:

Continuation of Ser. No. US 1988-228672, filed on 5 Aug

1988, now patented, Pat. No. US 5024844

DATE NUMBÉR ______

 JP 1987-204904
 19870818

 JP 1987-204905
 19870818

 JP 1988-94541
 19880419

 JP 1988-94542
 19880419

 PRIORITY INFORMATION:

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

Robinson, Douglas W. PRIMARY EXAMINER:

Witz, Jean C.

ASSISTANT EXAMINER: Oblon, Spivak, McClelland, Maier & Neustadt LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: 16 EXEMPLARY CLAIM: 1 LINE COUNT: 2032

ANSWER 32 OF 83 USPATFULL 1.8

92:54358 USPATFULL ACCESSION NUMBER:

TITLE:

Encapsulated earthworm cocoons

INVENTOR(S): Kreitzer, William R., Gibson City, IL, United States Advanced Biotechnology, Inc., Gibson City, IL, United PATENT ASSIGNEE(S):

States (U.S. corporation)

NUMBER KIND DATE ______ US 5127186 19920707 US 1991-733356 19910719 (7) PATENT INFORMATION:

APPLICATION INFO.:

Continuation of Ser. No. US 1990-547604, filed on 2 Jul RELATED APPLN. INFO.:

1990, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

Locker, Howard J. PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Bateman, Philip L.

NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM: 1 LINE COUNT: 216 L8 ANSWER 33 OF 83 USPATFULL

ACCESSION NUMBER: 92:5219 USPATFULL

TITLE: Process for preparing organic compost from municipal

refuse

INVENTOR(S): Glogowski, Mark E., 1498 Lake Rd., Hamlin, NY, United

States 14464

NUMBER KIND DATE

PATENT INFORMATION: US 5082486 19920121 APPLICATION INFO.: US 1990-614262 19901116 (7)

DISCLAIMER DATE: 20071120

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1988-269499, filed

on 10 Nov 1988, now patented, Pat. No. US 4971616, issued on 20 Nov 1990 which is a continuation-in-part of Ser. No. US 1987-35913, filed on 8 Apr 1987, now

abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Lander, Ferris H. LEGAL REPRESENTATIVE: Greenwald, Howard J.

NUMBER OF CLAIMS: 19 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT: 881

L8 ANSWER 34 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1993:301987 BIOSIS DOCUMENT NUMBER: PREV199396020212

TITLE: The composition of phospholipid and biosynthesis

of platelet activating factor in earthworm (Eisenia

foetida.

AUTHOR(S): Cheng, N. N. (1); Sugiura, T.; Fukuda, T.; Waku, K.

CORPORATE SOURCE: (1) Dep. Pharmacology, Wannan Med. Coll., Wuhu 241001 SOURCE: Acta Pharmaceutica Sinica, (1992) Vol. 27, No. 12, pp.

886-890. TYPE: Article

DOCUMENT TYPE: Article LANGUAGE: Chinese

SUMMARY LANGUAGE: Chinese; English

L8 ANSWER 35 OF 83 CABA COPYRIGHT 2001 CABI

ACCESSION NUMBER: 93:21178 CABA DOCUMENT NUMBER: 931974950

TITLE: Humification of organic waste material during

earthworm composting

AUTHOR: Concheri, G.; Nardi, S.; Dell'Agnola, G.

CORPORATE SOURCE: Dipartimento di Biotechnologie Agrarie, Univ.

Padova, 35131 Padova, Italy.

SOURCE: Fresenius Environmental Bulletin, (1992) Vol. 1, No.

11, pp. 754-759. 13 ref.

ISSN: 1018-4619

DOCUMENT TYPE: Journal

LANGUAGE: English

L8 ANSWER 36 OF 83 CABA COPYRIGHT 2001 CABI ACCESSION NUMBER: 95:179976 CABA

DOCUMENT NUMBER: 951909714

TITLE: Population structure of earthworms in the subalpine

zone of the Northern Caucasus (Elbrus region)

AUTHOR: Kulikov, A. Yu.

CORPORATE SOURCE: A. N. Severtsov Institute of Evolutionary Morphology

and Animal Ecology, Russia.

SOURCE: Soviet Journal of Ecology, (1992) Vol. 23, No. 5,

pp. 339-343. translated from Ekologiya (1992) 5

78-82. 3 ref. ISSN: 0096-7807

DOCUMENT TYPE:

LANGUAGE:

Journal English

ANSWER 37 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1991:488822 CAPLUS

DOCUMENT NUMBER:

115:88822

TITLE:

Preparation of fat mixtures comprising

eicosapentaenoate ester from worms of family

Lumbricidae

INVENTOR(S):

Farkas, Tibor; Fodor, Andras; Kopp, Maria; Nagy

Vanicsek, Aniko; Varnali, Aniko

PATENT ASSIGNEE(S):

MTA Szegedi Biologiai Kozpont, Hung.

SOURCE:

PCT Int. Appl., 16 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PA'	TENT	NO.		KII	D	DATE			Al	PPLI	CATI	ON NO	Э.	DATE			
	WO	9107	480		A.	1	1991	0530		W) 19	90-H	U73		1990	1113		
															NO,	SD,	SU,	US
		RW:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙT,	LU,	NL,	SE			
	HU	2024	06		В		1991	0328		H	J 19	89-5	870		1989	1113		
	ΑU	9067	248		A.	1	1991	0613		ΑU	J 19	90-6	7248		1990	1113		
PRIC	RIT	Y APP	LN.	INFO	. :				I	HU 19	989-	5870			1989	1113		
									Ţ	WO 19	990-	ни73			1990	1113		

ANSWER 38 OF 83 USPATFULL 1.8

ACCESSION NUMBER:

91:48457 USPATFULL

TITLE:

Process for the production of dried earthworm powder and antihyperlipemic, antidiabetic, antihypertensive and antihypotensive preparations containing dried

earthworm powder as active ingredient

INVENTOR(S):

Ishii, Yoichi, Miyazaki, Japan Mihara, Hisashi, Miyazaki, Japan

PATENT ASSIGNEE(S):

Eimei Company, Ltd., Miyazaki, Japan (non-U.S.

19880419

19880419

corporation)

	NUMBER	KIND DATE	
PATENT INFORMATION: APPLICATION INFO.:	US 5024844 US 1988-228672	19910618 19880805	(7)
•	NUMBER	DATE	
PRIORITY INFORMATION:	JP 1987-204904 JP 1987-204905	19870818 19870818	

JP 1988-94541

JP 1988-94542 Utility DOCUMENT TYPE:

Granted FILE SEGMENT: Robinson, Douglas W.

PRIMARY EXAMINER:

Witz, Jean C. ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE: Oblon, Spivak, McClelland, Maier & Neustadt, P.C.

NUMBER OF CLAIMS: 4 EXEMPLARY CLAIM: 1 LINE COUNT: 1930 ACCESSION NUMBER:

1992:49382 BIOSIS

TITLE:

THE INTERACTION OF A PROTEIN FROM THE COELOMIC FLUID OF

EARTHWORMS WITH STAPHYLOCOCCAL PROTEIN A.

REJNEK J; TUCKOVA L; ZIKAN J; TOMANA M AUTHOR(S):

CORPORATE SOURCE:

DEP. IMMUNOL., INST. MICROBIOL., CZECH. ACAD. SCI., VIDENSKA 1083, CS-142 20 PRAGUE 4, CSFR.

SOURCE:

DEV COMP IMMUNOL, (1991) 15 (4), 269-278.

CODEN: DCIMDQ. ISSN: 0145-305X.

FILE SEGMENT:

BA; OLD

LANGUAGE: English

ANSWER 40 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER:

1991:432212 BIOSIS

DOCUMENT NUMBER:

BA92:88377

TITLE:

PURIFICATION AND BIOCHEMICAL PROPERTIES OF FIBRINOLYTIC ENZYMES FROM THE EARTHWORM BY AFFINITY CHROMATOGRAPHY.

AUTHOR(S):

XU J; ZHANG G; CHEN S; ZHOU Y; CHEN Y

CORPORATE SOURCE:

DEP. HEMATOL., ZHONG SHAN HOSP., SHANGHAI MED. UNIV.,

SHANGHAI, CHINA.

ACTA ACAD MED SHANGHAI, (1991) 18 (4), 252-256.

CODEN: SYDXEE. ISSN: 0257-8131.

FILE SEGMENT:

BA; OLD Chinese

LANGUAGE:

ANSWER 41 OF 83 CABA COPYRIGHT 2001 CABI

ACCESSION NUMBER:

93:57069 CABA 931977696

DOCUMENT NUMBER: TITLE:

Use of the earthworm Eisenia

foetida for the decomposition of animal manure. II. Cattle and goat manure Utilizacion de la lombriz Eisenia

foetida en la degradacion de guano animal.

II. Guano de bovino y de caprino

AUTHOR:

Jadrijevic, D.; Varnero, M. T.; Carrasco, A.;

Lopez-Aliaga, R.

CORPORATE SOURCE:

Departamento de Prodducion Animal, Universidad de

Chile, Santiago, Chile.

SOURCE:

Avances en Produccion Animal, (1991) Vol. 16, No.

1-2, pp. 189-201. 13 ref.

DOCUMENT TYPE:

Journal Spanish

LANGUAGE:

SUMMARY LANGUAGE: English

ANSWER 42 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1991:513241 CAPLUS

DOCUMENT NUMBER:

115:113241

TITLE:

Use of the earthworm Eisenia foetida

for bioconversion of wastes and as a valuable feed Kholodova, Yu. D.; Mironova, V. N.; Gorodnii, N. M.; Povkhan, M. F.; Solodova, E. V.; Bulevskii, N. V.; AUTHOR(S):

Mel'nik, I. A.

CORPORATE SOURCE:

Inst. Biokhim., Kiev, USSR

SOURCE:

Dokl. Akad. Nauk Ukr. SSR (1991), (2), 139-43

CODEN: DANSEM

DOCUMENT TYPE:

Journal

LANGUAGE:

Russian

ANSWER 43 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS 18

ACCESSION NUMBER:

1991:476429 BIOSIS

DOCUMENT NUMBER:

BA92:110189

TITLE:

A NOTE ON THE NUTRITIONAL EVALUATION OF WORM MEAL

EISENIA-FOETIDA IN DIETS FOR RAINBOW

TROUT.

AUTHOR(S):

VELASQUEZ L; IBANEZ I; HERRERA C; OYARZUN M

FAC. QUIMICA, P. UNIVERSIDAD CATOLICA CHILE, SANTIAGO, CORPORATE SOURCE:

CHILE.

ANIM PROD, (1991) 53 (1), 119-122. SOURCE:

CODEN: ANIPA8. ISSN: 0003-3561.

FILE SEGMENT: BA; OLD English LANGUAGE:

ANSWER 44 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

1992:8366 BIOSIS ACCESSION NUMBER:

DOCUMENT NUMBER: BA93:8366

COMPOSITION OF LIPIDS AND FATTY ACIDS IN TITLE:

EISENIA-FOETIDA TISSUES.

KHOLODOVA YU D; MIRONOVA V N; POVKHAN M F; GORODNII N M; AUTHOR(S):

BERDYSHEV A G; BULEVSKII N V; MEL'NIK I A

A.V. PALLADIN INST. BIOCHEM., ACAD. SCI. UKR. SSR, KIEV, CORPORATE SOURCE:

USSR.

UKR BIOKHIM ZH, (1991) 63 (3), 76-81. SOURCE:

CODEN: UBZHD4. ISSN: 0201-8470.

FILE SEGMENT: BA; OLD LANGUAGE: Russian

ANSWER 45 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1991:171311 CAPLUS

DOCUMENT NUMBER: 114:171311

TITLE: Therapeutic medicament containing earthworm powder for

thrombosis and method for preparation thereof '

Ishii, Yoichi; Mihara, Hisashi; Lee, Mun Ho; Kimura, INVENTOR(S):

Eimei Co., Ltd., Japan Eur. Pat. Appl., 29 pp. PATENT ASSIGNEE(S): SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

Ρ

PATENT NO.	KIND	DATE	APPLICATION NO. DATE	
EP 383533	A1	19900822	EP 1990-301496 19900213	
EP 383533 R: AT, BE,	B1 CH, DE,		, , , , , , , , , , , , , , , , , , , ,	
AU 9049155 AU 619951	A1 B2	19900823 19920206	AU 1990-49155 19900206	
CA 2009531	AA	19900815	CA 1990-2009531 19900207	
JP 03072427 JP 3037355	A2 B2	19910327	JP 1990-31534 19900214	
US 5186944	A	19930216	US 1991-807406 19911212	
PRIORITY APPLN. INFO	. :		JP 1989-33701 A 19890215	
			JP 1989-107250 A 19890428 US 1990-475021 B1 19900205	

ANSWER 46 OF 83 USPATFULL 1.8

90:88941 USPATFULL ACCESSION NUMBER:

Process for preparing organic compost from municipal TITLE:

INVENTOR(S): Glogowski, Mark E., 1498 Lake Rd., Hamlin, NY, United

MIND

שמיים

States 14464

MILIMDED

	NOMBER	KIND	DATE	
PATENT INFORMATION:	US 4971616		19901120	
APPLICATION INFO.:	US 1988-269499		19881110	(7)

Continuation-in-part of Ser. No. US 1988-35913, filed RELATED APPLN. INFO.:

on 8 Apr 1988, now abandoned

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted Lander, Ferris H.

PRIMARY EXAMINER: LEGAL REPRESENTATIVE:

Greenwald, Howard J.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

16 1

NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

1055

ANSWER 47 OF 83 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER:

1991:182424 CAPLUS

DOCUMENT NUMBER:

CORPORATE SOURCE:

114:182424

TITLE:

Purification and biochemical characterization of the

platelet aggregation factor from the earthworm

(Eisenia foelide)

AUTHOR(S):

Zhou, Yuancong; Zhu, Hong; Chen, Ruihong; Chen,

Yuancong; Tao, Zongjin; Xu, Jianmin; Zhang, Guozheng Shanghai Inst. Biochem., Acad. Sin., Shanghai, Peop.

Rep. China

SOURCE:

Shengwu Huaxue Yu Shengwu Wuli Xuebao (1990), 22(5),

469-76

CODEN: SHWPAU; ISSN: 0582-9879

DOCUMENT TYPE:

Journal Chinese

LANGUAGE:

L8ANSWER 48 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

CORPORATE SOURCE:

1990:570964 CAPLUS

DOCUMENT NUMBER:

113:170964

TITLE:

Trace elements in soil and biota in confined disposal

facilities for dredged material

AUTHOR(S):

Beyer, W. Nelson; Miller, Gary; Simmers, John W. Patuxent Wildl. Res. Cent., U. S. Fish Wildl. Serv.,

Laurel, MD, 20708, USA

SOURCE:

Environ. Pollut. (1990), 65(1), 19-32 \cdot

CODEN: ENPOEK; ISSN: 0269-7491

DOCUMENT TYPE:

LANGUAGE:

Journal English

ANSWER 49 OF 83 CAPLUS COPYRIGHT 2001 ACS $\Gamma8$

ACCESSION NUMBER:

1990:153346 CAPLUS

DOCUMENT NUMBER:

112:153346

TITLE:

Fate of BHC in the terrestrial ecosystem

AUTHOR(S):

Huang, Shizhong; Li, Zhixiang

CORPORATE SOURCE:

Natl. Agroenviron. Protect. Inst., Tianjin, Peop. Rep.

China

SOURCE:

J. Environ. Sci. (China) (1989), 1(2), 48-53

CODEN: JENSEE

DOCUMENT TYPE:

Journal

LANGUAGE:

English

ANSWER 50 OF 83 CAPLUS COPYRIGHT 2001 ACS L8

1990:137826 CAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER:

112:137826

TITLE:

Study of the lipid-protein composition of

Eisenia foetida

AUTHOR(S):

Smailova, T. S.; Morev, Yu. B.; Abdykerimova, A. S.;

Koshoev, K. K.

CORPORATE SOURCE:

Inst. Biol., Frunze, USSR

SOURCE:

Izv. Akad. Nauk Kirg. SSR, Khim.-Tekhnol. Biol. Nauki

(1989), (2), 30-2

CODEN: IAKNED

DOCUMENT TYPE:

Journal

LANGUAGE:

Russian

ANSWER 51 OF 83 CABA COPYRIGHT 2001 CABI L8

ACCESSION NUMBER: 90:143873 CABA

901427576 DOCUMENT NUMBER:

Use of earthworms as a protein supplement in the TITLE:

diet of rabbits

Uso de la lombriz de tierra como suplemento

proteinico en dietas para conejos

AUTHOR: Orozco Almanza, M. S.; Ortega Cerrilla, M. E.;

Perez-Gil Romo, F.

CORPORATE SOURCE: Departamento de Nutricion Animal, Division de

Nutricion Experimental y Ciencia de los Alimentos,

Instituto Nacional de la Nutricion "Salvador Zubiran", Vasco de Quiroga No. 15, Col. y Deleg. Tlalpan, 14000 Mexico City, DF, Mexico.

Archivos Latinoamericanos de Nutricion, (1988) Vol. SOURCE:

38, No. 4, pp. 946-955. 22 ref.

DOCUMENT TYPE:

Journal Spanish LANGUAGE: SUMMARY LANGUAGE: English

ANSWER 52 OF 83 MEDLINE L8

91136374 MEDLINE ACCESSION NUMBER:

DOCUMENT NUMBER: 91136374 PubMed ID: 3154302

TITLE: [Use of earthworms as a protein supplement in diets for

rabbits].

Uso de la lombriz de tierra como suplemento proteinico en

dietas para conejos.

Orozco Almanza M S; Ortega Cerrilla M E; Perez-Gil Romo F AUTHOR:

Instituto Nacional de la Nutricion Salvador Zubiran, CORPORATE SOURCE:

Mexico, D.F.

ARCHIVOS LATINOAMERICANOS DE NUTRICION, (1988 Dec) 38 (4) SOURCE:

946-55.

Journal code: 7RD; 0067507. ISSN: 0004-0622.

PUB. COUNTRY:

Venezuela

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

Spanish

FILE SEGMENT: . Priority Journals

ENTRY MONTH:

199103

ENTRY DATE:

Entered STN: 19910405

Last Updated on STN: 19910405 Entered Medline: 19910319

ANSWER 53 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS 18

ACCESSION NUMBER:

1988:200157 BIOSIS

DOCUMENT NUMBER:

BA85:101503

TITLE:

PROTEINS FROM CYTOPLASMIC RIBOSOMES OF ANNELID WORMS.

AUTHOR(S):

GREIF K; KLEINOW W

CORPORATE SOURCE:

DEUTSCHES KREBSFORSCHUNGSZENTRUM, INST. BIOCHEM. PROF DR F.

MARKS, IM NEUENHEIMER FELD 280, D-6900 HEIDELBERG, W.

GERMANY.

SOURCE:

COMP BIOCHEM PHYSIOL B COMP BIOCHEM, (1988) 89 (2),

347-354.

CODEN: CBPBB8. ISSN: 0305-0491.

FILE SEGMENT:

BA; OLD

LANGUAGE:

English

ANSWER 54 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS L8

ACCESSION NUMBER:

1989:477184 BIOSIS

DOCUMENT NUMBER:

BA88:112944

TITLE:

RAINWORM MEATMEAL AS PROTEIN FOOD FOR FATTENING CHICKENS.

AUTHOR(S):

JELACA R

CORPORATE SOURCE:

POLOPROMET KARLOVAC, 47000 KARLOVAC.

SOURCE:

POLJOPR ZNAN SMOTRA, (1988) 53 (3-4), 307-316.

CODEN: PJZSAZ. ISSN: 0370-0291.

FILE SEGMENT:

BA; OLD

LANGUAGE:

Serbo-Croatian

ANSWER 55 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER:

1988:423877 BIOSIS

DOCUMENT NUMBER:

BA86:86489

TITLE: .

CHEMICAL CHANGES DURING VERMICOMPOSTING EISENIA-

FOETIDA OF SHEEP MANURE MIXED WITH COTTON

INDUSTRIAL WASTES.

AUTHOR(S):

ALBANELL E; PLAIXATS J; CABRERO T

CORPORATE SOURCE:

AGRICULTURA, FAC. DE VET., UNIV. AUTONOMA DE BARCELONA,

BELLATERRA, E-08193 BARCELONA, SPAIN.

SOURCE:

BIOL FERTIL SOILS, (1988) 6 (3), 266-269.

CODEN: BFSOEE. ISSN: 0178-2762.

FILE SEGMENT:

BA; OLD

LANGUAGE:

English

ANSWER 56 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS 1989:158249 BIOSIS

ACCESSION NUMBER:

BA87:80350

DOCUMENT NUMBER: TITLE:

THE FINNISH LUMBRICIDAE OLIGOCHAETA FAUNA AND ITS

FORMATION.

AUTHOR(S):

TERHIVOU J

CORPORATE SOURCE:

ZOOL. MUS., UNIV. HELSINKI, P. RAUTATIEKATU 13, SF-00100

HELSINKI, FINLAND.

SOURCE:

ANN ZOOL FENN, (1988) 25 (3), 229-248. CODEN: AZOFAO. ISSN: 0003-455X.

FILE SEGMENT:

BA; OLD English

LANGUAGE:

ANSWER 57 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS L8

ACCESSION NUMBER: DOCUMENT NUMBER:

1989:29049 BIOSIS BA87:17049

TITLE:

PROTEIN ANALYSIS OF EARTHWORM COELOMIC FLUID IV. EVIDENCE

ACTIVITY INDUCTION AND PURIFICATION OF EISENIA-

FOETIDA-ANDREAI LYSOZYME ANNELIDAE.

AUTHOR(S):

LASSALLE F; LASSEGUES M; ROCH P

CORPORATE SOURCE:

DEP. DE BIOL. DE DEVELOPPEMENT, UNIV. DE BORDEAUX 1-UA CNRS 1136, INST. DE BIOL. ANIMALE, AVE. DES FAC., 33405 TALENCE

CEDEX, FRANCE.

SOURCE:

COMP BIOCHEM PHYSIOL B COMP BIOCHEM, (1988) 91 (1),

187-192.

CODEN: CBPBB8. ISSN: 0305-0491.

FILE SEGMENT:

BA; OLD

LANGUAGE:

English

ANSWER 58 OF 83 CAPLUS COPYRIGHT 2001 ACS $\Gamma8$

ACCESSION NUMBER:

1988:469262 CAPLUS

DOCUMENT NUMBER:

109:69262

TITLE:

Purification and biochemical characterization of the

fibrinolytic enzymes from the earthworm Eisenia

foelide

AUTHOR(S):

Zhou, Yuancong; Zhu, Hong; Chen, Yuancong; Tao,

Zongjin

CORPORATE SOURCE:

Shanghai Inst. Biochem., Acad. Sin., Shanghai, Peop.

Rep. China

SOURCE:

Shengwu Huaxue Yu Shengwu Wuli Xuebao (1988), 20(1),

35 - 42

CODEN: SHWPAU; ISSN: 0582-9879

DOCUMENT TYPE:

Journal

LANGUAGE: Chinese

1.8 ANSWER 59 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1988:418556 BIOSIS

DOCUMENT NUMBER:

BA86:81168

TITLE:

CHEMICAL COMPOSITION AND AMINO ACID CONTENT OF

THE EARTHWORM EISENIA-FOETIDA SAV. AND

LUMBRICUS-RUBELLUS HOFF.

AUTHOR(S):

FLORES M T; ALVIRA P

CORPORATE SOURCE:

CATEDRA DE AGRIC., DPTO. DE PRODUCCION ANIM., FAC. DE

VETERINARIA, UNIV. COMPLUTENSE, CIUDAD UNIV., 28040 MADRID,

SOURCE:

AN EDAFOL AGROBIOL, (1987) 46 (7-8), 785-798.

CODEN: AEDAAB. ISSN: 0365-1797.

FILE SEGMENT:

BA; OLD

LANGUAGE:

Spanish

ANSWER 60 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS ACCESSION NUMBER:

1988:405038 BIOSIS

DOCUMENT NUMBER:

BR35:68013

TITLE:

THE EARTHWORMS EISENIA-FOETIDA SAV. AND LUMBRICUS-RUBELLUS HOFF. BIOLOGY AND USES.

AUTHOR(S):

FLORES M T; ALVIRA P

CORPORATE SOURCE:

CATEDRA DE AGRIC., DPTO. DE PRODUCCION ANIM., FAC. DE VET., UNIV. COMPLUTENSE, CIUDAD UNIVERSITARIA, 28040 MADRID,

SOURCE:

An. Edafol. Agrobiol., (1987) 46 (7-8), 771-784.

CODEN: AEDAAB. ISSN: 0365-1797.

FILE SEGMENT:

BR; OLD Spanish

LANGUAGE:

ANSWER 61 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1989:36884 CAPLUS

DOCUMENT NUMBER:

110:36884

TITLE:

Cellulolytic and ligninolytic activities in the digestive tract of Eisenia fetida andrei Bouche

AUTHOR(S):

Loquet, M.; Vinceslas, M.

CORPORATE SOURCE:

Lab. Biol. Veg. Ecol., Fac. Sci. Tech. Rouen,

Mont-Saint-Aignan, 76130, Fr.

SOURCE:

Rev. Ecol. Biol. Sol (1987), 24(4), 559-71

CODEN: REBSA4; ISSN: 0035-1822

DOCUMENT TYPE:

LANGUAGE:

Journal French

ANSWER 62 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS. Γ 8

ACCESSION NUMBER:

1988:393077 BIOSIS

DOCUMENT NUMBER:

BA86:65716

TITLE:

THE CHEMICAL AND AMINO ACID COMPOSITION OF THE

COMPOST WORM EISENIA-FOETIDA AS

POTENTIAL PROTEIN SOURCE IN ANIMAL FEEDS.

AUTHOR(S):

REINECKE A J; ALBERTS J N

CORPORATE SOURCE:

DEP. DIERKUNDE, PU VIR CHO, POTCHEFSTROOM 2520.

SOURCE:

S-AFR TYDSKR NATUURWET TEGNOL, (1987) 6 (4), 144-149.

CODEN: SATTDF. ISSN: 0254-3486.

FILE SEGMENT:

BA; OLD

LANGUAGE:

Afrikaans

ANSWER 63 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1990:403535 CAPLUS

DOCUMENT NUMBER:

113:3535

TITLE:

Year-cycle changes during the early vitellogenesis in

Eisenia foetida. II. Histoenzymic study on female reproductive cells

AUTHOR(S):

Czechowicz, Kazimierz; Pilsniak, Urszula; Skowerska,

Miroslawa

CORPORATE SOURCE:

Dep. Anim. Histol. Embryol., Silesian Sch. Med.,

Katowice, Pol.

SOURCE:

Zool. Pol. (1987), 34(1-4), 97-103

CODEN: ZOPOAG; ISSN: 0044-510X

DOCUMENT TYPE: Journal LANGUAGE: English

L8 ANSWER 64 OF 83 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1990:403534 CAPLUS

DOCUMENT NUMBER: 113:3534

TITLE: Year-cycle changes during the early vitellogenesis in

Eisenia foetida. I. Histochemical

analysis

AUTHOR(S): Czechowicz, Kazimierz; Skowerska, Miroslawa; Pilsniak,

Urszula

CORPORATE SOURCE: Dep. Anim. Histol. Embryol., Silesian Sch. Med.,

Katowice, Pol.

SOURCE: Zool. Pol. (1987), 34(1-4), 81-96

CODEN: ZOPOAG; ISSN: 0044-510X

DOCUMENT TYPE: Journal LANGUAGE: English

L8 ANSWER 65 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1987:147040 BIOSIS

DOCUMENT NUMBER: BA83:76090

TITLE: AMINO ACID COMPOSITIONS AND RELATIONSHIPS OF FIVE

EARTHWORM DEFENSE PROTEINS.
AUTHOR(S): ROCH P; VALEMBOIS P; VAILLIER J

CORPORATE SOURCE: UA CNRS, NEUROBIOL DEV. IMMUNOLOGIE COMPAREE, UNIV.

BORDEAUX I, AVE. DES FACULTES, 33405 TALENCE, FR.

SOURCE: COMP BIOCHEM PHYSIOL B COMP BIOCHEM, (1986 (RECD 1987)) 85

(4), 747-752.

CODEN: CBPBB8. ISSN: 0305-0491.

FILE SEGMENT: BA; OLD LANGUAGE: English

L8 ANSWER 66 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1986:449144 CAPLUS

DOCUMENT NUMBER: 105:49144

TITLE: Preliminary study on chemical constituents of

earthworm Daping II

AUTHOR(S): Zhao, Chungui; Si, Shilin

CORPORATE SOURCE: Hebei Coll. Trad. Chin. Med., Shijiazhuang, Peop. Rep.

China

SOURCE: Zhongyao Tongbao (1986), 11(5), 296-7

CODEN: CYTPDT; ISSN: 0254-0029

DOCUMENT TYPE: Journal LANGUAGE: Chinese

L8 ANSWER 67 OF 83 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1986:606668 CAPLUS

DOCUMENT NUMBER: 105:206668

TITLE: The collagen content of selected animals AUTHOR(S): Cianciosi, S. C.; Hird, Francis J. R.

CORPORATE SOURCE: Russell Grimwade Sch. Biochem., Univ. Melbourne,

Parkville, 3052, Australia

SOURCE: Comp. Biochem. Physiol., B: Comp. Biochem. (1986),

85B(2), 295-8

CODEN: CBPBB8; ISSN: 0305-0491

DOCUMENT TYPE: Journal LANGUAGE: English

L8 ANSWER 68 OF 83 CABA COPYRIGHT 2001 CABI

ACCESSION NUMBER: 88:15189 CABA

DOCUMENT NUMBER: 881403229

TITLE: \ Earthworm meal. 2. Fatty acid composition,

antinutritional factors and heat treatments for

bacteriological control

Harina de lombriz. 2. Composicion de acidos grasos, factores antinutricionales y tratamiento termico

para control bacterial

Velasquez B., L. A.; Herrera C., C. A.; Ibanez B., AUTHOR:

I. A.

CORPORATE SOURCE: Lab. Proteinas y Alimentos, Facultad de Quimica,

Pontificia Univ. Catolica de Chile Casilla 6177,

Santiago, Chile.

Alimentos, Chile, (1986) Vol. 11, No. 4, pp. 9-13. 9 SOURCE:

ref.

DOCUMENT TYPE:

Journal Spanish

LANGUAGE: SUMMARY LANGUAGE:

English

ANSWER 69 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: DOCUMENT NUMBER:

1986:31991 CAPLUS 104:31991

TITLE:

Cholecystokinin in the nervous systems of

invertebrates and protochordates. Immunohistochemical localization of a cholecystokinin-8-like substance in

annelids and insects

Dhainaut-Courtois, N.; Tramu, G.; Marcel, R.; Malecha, AUTHOR(S):

J.; Verger-Bocquet, M.; Andries, J. C.; Masson, M.; Selloum, L.; Belemtougri, G.; Beauvillain, J. C.

CORPORATE SOURCE:

SOURCE:

Univ. Lille I, Villeneuve d'Ascq, 59655, Fr. Ann. N. Y. Acad. Sci. (1985), 448 (Neuronal

Cholecystokinin), 167-87

CODEN: ANYAA9; ISSN: 0077-8923

DOCUMENT TYPE:

LANGUAGE: English

ANSWER 70 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS 18

ACCESSION NUMBER:

1985:196808 BIOSIS BR29:86804

Journal

DOCUMENT NUMBER: TITLE:

SPECIES COMPOSITION OF EARTHWORMS AND THE

INCIDENCE OF THEIR INFESTATION WITH HELMINTH LARVAE IN THE

BELORUSSIAN-SSR USSR.

AUTHOR(S):

BYCHKOVA L I

CORPORATE SOURCE:

INST. ZOOL., ACAD. SCI. B. SSR, MINSK, USSR.

SOURCE:

Vestsi Akad. Navuk BSSR, Ser. Biyal. Navuk, (1985) 0 (1),

91-93.

CODEN: VABBA3. ISSN: 0002-3558. BR; OLD

FILE SEGMENT:

LANGUAGE:

Byelorussian

L8 ANSWER 71 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1985:107677 CAPLUS

DOCUMENT NUMBER:

102:107677

TITLE:

The localization of heavy metals in the tissues of terrestrial invertebrates by electron microprobe x-ray

analysis

AUTHOR(S):

SOURCE:

Morgan, A. J.

CORPORATE SOURCE:

Zool. Dep., Univ. Coll., Cardiff, CFI IXL, UK Scanning Electron Microsc. (1984), (4), 1847-65

CODEN: SEMYBL; ISSN: 0586-5581

DOCUMENT TYPE:

Journal LANGUAGE: English

ANSWER 72 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1985:575730 CAPLUS

DOCUMENT NUMBER:

103:175730

TITLE:

An analysis of the inorganic composition of

the setae of Eisenia foetida

(Oligochaeta, Lumbricidae)

Harman, Walter J. AUTHOR(S):

Dep. Zool. Physiol., Louisiana State Univ., Baton CORPORATE SOURCE:

Rouge, LA, 70803-1725, USA

Proc. La. Acad. Sci. (1984), 47, 19-22 SOURCE: .

CODEN: PLAAA6; ISSN: 0096-9192

DOCUMENT TYPE:

Journal

LANGUAGE: English

ANSWER 73 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1984:453556 CAPLUS

DOCUMENT NUMBER:

101:53556

TITLE:

Determination of nutrients in the earthworm and its

evaluation

AUTHOR(S): CORPORATE SOURCE: Zhang, Hongzhi; Wang, Lilan; Wang, Lan Jilin Inst. Biol., Peop. Rep. China Dongwuxue Zazhi (1984), (2), 18-21

SOURCE:

CODEN: TWHCDZ; ISSN: 0250-3263

DOCUMENT TYPE:

Journal Chinese

LANGUAGE:

ANSWER 74 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER:

1984:263903 BIOSIS

DOCUMENT NUMBER:

BA78:383

TITLE:

POSSIBLE SIGNIFICANCE OF THE TRANS AMIDINATION REACTION IN

EVOLUTION.

AUTHOR(S):

.HIRD F J R; CIANCIOSI S C; MCLEAN R M; NIEKRASH R E

CORPORATE SOURCE:

RUSSELL GRIMWADE SCH. BIOCHEM., UNIV. MELBOURNE, PARKVILLE,

VICTORIA 3052, AUSTRALIA.

SOURCE:

COMP BIOCHEM PHYSIOL B COMP BIOCHEM, (1983 (RECD 1984)) 76

(3), 489-496.

CODEN: CBPBB8. ISSN: 0305-0491.

FILE SEGMENT: LANGUAGE:

BA; OLD English

ANSWER 75 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER:

1983:246060 BIOSIS

DOCUMENT NUMBER:

BA76:3552

TITLE:

THE ELEMENTAL COMPOSITION OF THE CHLORAGOSOMES OF

9 SPECIES OF BRITISH EARTHWORMS IN RELATION TO CALCIFEROUS

GLAND ACTIVITY.

AUTHOR(S):

MORGAN A J

CORPORATE SOURCE:

DEP. ZOOL., UNIV. COLL., CARDIFF CF1 1XL, UK.

SOURCE:

COMP BIOCHEM PHYSIOL A COMP PHYSIOL, (1982) 73 (2),

207-216.

CODEN: CBPAB5. ISSN: 0300-9629.

FILE SEGMENT: LANGUAGE:

BA; OLD English

ANSWER 76 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS 1.8

ACCESSION NUMBER:

1982:143159 BIOSIS

DOCUMENT NUMBER:

BA73:3143

TITLE:

PROTEIN ANALYSIS OF EARTHWORM COELOMIC FLUID 2. ISOLATION

AND BIOCHEMICAL CHARACTERIZATION OF THE EISENIA-

FOETIDA-ANDREA FACTOR.

AUTHOR(S):

ROCH P; DAVANT N; LASSEGUES M; VALEMBOIS P

CORPORATE SOURCE: CENT. MORPHOL. EXP., CNRS, UNIV. BORDEAUX 1, AVE. DES

FACULTES, 33405-TALENCE CEDEX, FR. COMP BIOCHEM PHYSIOL B COMP BIOCHEM, (1981) 69 (4),

829-836.

CODEN: CBPBB8. ISSN: 0305-0491.

FILE SEGMENT:

BA; OLD

LANGUAGE:

SOURCE:

English

ANSWER 77 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER:

CORPORATE SOURCE:

1980:279205 BIOSIS

DOCUMENT NUMBER:

BA70:71701

TITLE:

COMPOSITION OF THE EARTHWORM EISENIA-

FOETIDA AND ASSIMILATION OF 15 ELEMENTS FROM SLUDGE

DURING GROWTH.

AUTHOR(S):

HARTENSTEIN R; LEAF A L; NEUHAUSER E F; BICKELHAUPT D H STATE UNIV. N.Y. COLL. ENVIRON. SCI. FOR., SYRACUSE, N.Y.

13210, USA.

SOURCE:

COMP BIOCHEM PHYSIOL C COMP PHARMACOL, (1980) 66 (2),

187-192.

CODEN: CBPCBB. ISSN: 0306-4492.

FILE SEGMENT:

BA; OLD English

LANGUAGE:

ANSWER 78 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: DOCUMENT NUMBER:

CORPORATE SOURCE:

1981:527000 CAPLUS 95:127000

TITLE:

Parathion modifies serotonin and catecholamine content

in brain and subesophagic ganglions of Eisenia

foetida

AUTHOR(S):

Izquierdo, J. A.; Tomsic, Z.; Alvarado, Leticia Cent. Estudios Faramacol. Principios Nat., Buenos

Aires, 1428, Argent.

SOURCE:

Rev. Soc. Argent. Biol. (1979), 54-55(1-8), 116-19

CODEN: RSABAC; ISSN: 0037-8380

DOCUMENT TYPE:

English LANGUAGE:

ANSWER 79 OF 83 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER:

1981:2227 CAPLUS

DOCUMENT NUMBER:

94:2227

Journal

Journal

TITLE:

Morphological and cytochemical studies of the

vitellogenesis in Eisenia foetida

(Oligochaeta: annelida) Sareen, M. L.; Verma, V.

AUTHOR(S): CORPORATE SOURCE:

SOURCE:

Zool. Dep., Panjab Univ., Chandigarh, India Res. Bull. Panjab Univ., Sci. (1979), Volume Date

1976, 27(1-2), 41-9 CODEN: RBJUAT; ISSN: 0555-7631

DOCUMENT TYPE:

English LANGUAGE:

L8

ANSWER 80 OF 83 CABA COPYRIGHT 2001 CABI

ACCESSION NUMBER:

79:74896 CABA

DOCUMENT NUMBER: TITLE:

791483285

AUTHOR:

Nutritional value of earthworm for poultry feed Yoshida, M.; Hoshii, H.

CORPORATE SOURCE:

National Inst. Animal Industry, Chiba-shi 280,

Japan.

SOURCE:

Japanese Poultry Science, (1978) Vol. 15, No. 6, pp.

308-311. 8 ref. ISSN: 0029-0254

DOCUMENT TYPE:

Journal English

LANGUAGE: SUMMARY LANGUAGE:

Japanese

L8 ANSWER 81 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER:

1980:224357 BIOSIS

DOCUMENT NUMBER:

BA70:16853

MORPHOLOGICAL AND CYTOCHEMICAL STUDIES OF THE

VITELLOGENESIS IN EISENIA-FOETIDA

OLIGOCHAETA ANNELIDA.

AUTHOR(S):

TITLE:

SAREEN M L; VERMA V

CORPORATE SOURCE:

ZOOL. DEP., PANJAB UNIV., CHANDIGARH, PUNJAB-HARYAN, INDIA:

SOURCE:

RES BULL PANJAB UNIV SCI, (1976 (RECD 1980)) 27 (1-2),

41-50.

CODEN: RBJUAT. ISSN: 0555-7631.

FILE SEGMENT:

BA; OLD

LANGUAGE:

English

ANSWER 82 OF 83 CABA COPYRIGHT 2001 CABI

ACCESSION NUMBER:

76:97166 CABA

DOCUMENT NUMBER:

751921990

TITLE:

Influence of earthworm activity on protein content

and quality in oat seedlings

AUTHOR:

Aldag, R.; Graff, O.

CORPORATE SOURCE:

Institut fur Bodenkunde der Universitat, 3400 Gottingen, von Sieboldstrasse 4, German Federal

Republic.

SOURCE:

Landwirtschaftliche Forschung, (1975) No. Sonderheft 31/II, Kongressband 1974, pp. 277-284.

DOCUMENT TYPE:

Journal German

LANGUAGE: SUMMARY LANGUAGE:

English; French

ANSWER 83 OF 83 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER:

1971:168464 BIOSIS

DOCUMENT NUMBER:

BA52:78464

TITLE:

BIOCHEMICAL STUDIES ON EISENIA-FOETIDA

THE BRANDLING WORM PART 3 BLOOD COMPOSITION.

AUTHOR(S):

MCLAUGHLIN J

SOURCE:

COMP BIOCHEM PHYSIOL, (1971) 38 (1B), 179-195.

CODEN: CBCPAI. ISSN: 0010-406X.

FILE SEGMENT:

LANGUAGE:

BA; OLD Unavailable

=>

(FILE 'HOME' ENTERED AT 14:29:33 ON 11 OCT 2001)

L1	FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH, USPATFULL, JAPIO' ENTERED AT 14:30:50 ON 11 OCT 2001 2704 S EISENIA FOETIDA
	1559 DUP REMOVE L1 REMP (1145 DUPLICATES REMOVED)
	62 S COELOMIC CYTOLYTIC FACTOR 1 OR CCF-1
L4	30 DUP REM L3 (32 DUPLICATES REMOVED)
	SET SMA OFF
	SET SMA ON
	SET SMA LOGIN
	FILE 'CAPLUS' ENTERED AT 14:38:04 ON 11 OCT 2001
L6	1 S L***
	FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH, USPATFULL, JAPIO' ENTERED AT 14:38:15 ON 11 OCT 2001
L7	83 S L2 AND COMPOSITION?
L8	•
L9	0 S L8 AND L4
L10	3 S GLUCAN-BINDING AND L2
L11	1 S LIPOPOLYSACCHARIDE-BINDING AND L2

ANSWER 1 OF 30 USPATFULL

2001:173662 USPATFULL ACCESSION NUMBER:

Propylene composition, process for preparing the same, TITLE:

polypropylene composition, and molded articles

Okayama, Chikashi, Ichihara, Japan INVENTOR(S): Nakashima, Takanori, Ichihara, Japan

Kimura, Masami, Ichihara, Japan Wakata, Mayumi, Ichihara, Japan Kimura, Kazuhiro, Ichihara, Japan Yamamoto, Toshiki, Ichihara, Japan Ishii, Hirohisa, Ichihara, Japan Sugimoto, Masataka, Ichihara, Japan

Gouda, Kunio, Ichihara, Japan Mochizuki, Yasuhiro, Chiba, Japan Saito, Noriaki, Ichihara, Japan Yokota, Junichiro, Ichihara, Japan Kawano, Shouji, Ichihara, Japan Nakagawa, Yasuhiko, Ichihara, Japan

PATENT ASSIGNEE(S): Chisso Corporation, Osaka, Japan (non-U.S. corporation)

NUMBER KIND DATE US 6300415 B1 20011009 PATENT INFORMATION: WO 9719135 19970529 APPLICATION INFO.: US 1998-68949 19980814 WO 1996-JP3433 19961122

19980814 PCT 371 date 19980814 PCT 102(e) date

DATE NUMBER PRIORITY INFORMATION: JP 1995-305292 19951124 JP 1996-35639 19960129 JP 1996-106365 19960402 JP 1996-174178 19960613 JP 1996-181141 19960621 JP 1996-209030 19960718 JP 1996-209031 19960718

DOCUMENT TYPE: Utility FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Nutter, Nathan M. LEGAL REPRESENTATIVE: McDermott, Will & Emery

NUMBER OF CLAIMS: 30 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT:

ANSWER 2 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 1

ACCESSION NUMBER: 2000:398292 BIOSIS DOCUMENT NUMBER: PREV200000398292

A lipopolysaccharide- and beta-1,3-glucan-binding protein TITLE:

from hemocytes of the freshwater crayfish Pacifastacus leniusculus: Purification, characterization, and cDNA

cloning.

Lee, So Young; Wang, Ruigong; Soderhall, Kenneth (1) AUTHOR(S): (1) Department of Comparative Physiology, Evolutionary CORPORATE SOURCE:

Biology Center, Uppsala University, Norbyvagen 18A,

S-75236, Uppsala Sweden

Journal of Biological Chemistry, (January 14, 2000) Vol. SOURCE:

275, No. 2, pp. 1337-1343. print.

ISSN: 0021-9258.

DOCUMENT TYPE:

Article LANGUAGE: English SUMMARY LANGUAGE: English L4 ANSWER 3 OF 30 MEDLINE

ACCESSION NUMBER: 2001505386 MEDLINE

DOCUMENT NUMBER: 21245812 PubMed ID: 11347248

TITLE: Antimicrobial defense of the earthworm.

AUTHOR: Rilei M: De Raetselier P: Reschip A

AUTHOR: Bilej M; De Baetselier P; Beschin A

CORPORATE SOURCE: Department of Immunology and Gnotobiology, Institute of Microbiology, Academy of Sciences of the Czech Republic,

142 20 Prague 4, Czechia.

SOURCE: FOLIA MICROBIOLOGICA, (2000) 45 (4) 283-300. Ref: 139

Journal code: F23; 0376757. ISSN: 0015-5632.

PUB. COUNTRY: Czech Republic

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, TUTORIAL)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200109

ENTRY DATE: Entered STN: 20010917

Last Updated on STN: 20010917 Entered Medline: 20010913

L4 ANSWER 4 OF 30 CABA COPYRIGHT 2001 CABI ACCESSION NUMBER: 2001:2661 CABA DOCUMENT NUMBER: 20000617559

TITLE: Continuous cover forestry

AUTHOR: Helliwell, R.

CORPORATE SOURCE: Yokecliffe House, West End, Wirksworth, Derbyshire

DE4 4EG, UK.

SOURCE: Continuous cover forestry, (1999) pp. 23. 11 ref.

Publisher: Continuous Cover Forestry Group. Bedford

Price: pounds sterling3

PUB. COUNTRY: United Kingdom DOCUMENT TYPE: Miscellaneous

LANGUAGE: English

L4 ANSWER 5 OF 30 MEDLINE

ACCESSION NUMBER: 1999385340 MEDLINE

DOCUMENT NUMBER: 99385340 PubMed ID: 10458158 TITLE: Convergent evolution of cytokines.

AUTHOR: Beschin A; Bilej M; Brys L; Torreele E; Lucas R; Magez S;

De Baetselier P

SOURCE: NATURE, (1999 Aug 12) 400 (6745) 627-8.

Journal code: NSC; 0410462. ISSN: 0028-0836.

PUB. COUNTRY: ENGLAND: United Kingdom

Letter LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199909

ENTRY DATE: Entered STN: 19990925

Last Updated on STN: 19990925 Entered Medline: 19990908

L4 ANSWER 6 OF 30 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1999:405076 CAPLUS

DOCUMENT NUMBER: 131:41281

TITLE: Earthworm coelomic cytolytic factor CCF-

1 and treatment of cancer and trypanosomal or

bacterial infection
INVENTOR(S):
De Baetselier, Patrick

PATENT ASSIGNEE(S): Vlaams Interuniversitair Instituut voor Biotechnologie

Vzw., Belg.

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND DATE DATE APPLICATION NO. DATE PATENT NO. _____ ----_____ WO 9931229 A2 19990624 WO 9931229 A3 19990826 19990624 WO 1998-EP8169 19981216 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG AU 9921616 A1 19990705 AU 1999-21616 19981216 A2 20001011 EP 1998-965828 19981216 EP 1042475 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,

IE, FI

PRIORITY APPLN. INFO.:

EP 1997-203974 A 19971217 WO 1998-EP8169 W 19981216

L4 ANSWER 7 OF 30 JAPIO COPYRIGHT 2001 JPO ACCESSION NUMBER: 1999-103407 JAPIO

TITLE:

CCD DATA PIXEL INTERPOLATING CIRCUIT AND DIGITAL STILL

CAMERA PROVIDED WITH THE SAME

INVENTOR:

MIYAMOTO KEISUKE

PATENT ASSIGNEE(S):

NEC CORP, JP (CO 000423)

PATENT INFORMATION:

PATENT NO KIND DATE ERA MAIN IPC JP 11103407 A 19990413 Heisei (6) H04N005-225

JΡ

APPLICATION INFORMATION

ST19N FORMAT: ORIGINAL:

JP1997-263428 JP09263428 19970929 Heisei

SOURCE:

PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined

Applications, Vol. 99, No. 4

L4 ANSWER 8 OF 30 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1999:539165 CAPLUS

DOCUMENT NUMBER:

TITLE:

131:285145

Convergent evolution of cytokines

AUTHOR(S):

Beschin, Alain; Bilej, Martin; Brys, Lea; Torreele, Els; Lucas, Rudolf; Magez, Stefan; De Baetselier,

Patrick

CORPORATE SOURCE:

Dep. Immunology, Parasitology and Ultrastructure,

Flemish Interuniversity Inst. Biotechnology,

St-Genesius-Rode, 1640, Belg.

SOURCE:

Nature (London) (1999), 400(6745), 627-628

CODEN: NATUAS; ISSN: 0028-0836

PUBLISHER:

Macmillan Magazines

DOCUMENT TYPE: LANGUAGE:

Journal English

REFERENCE COUNT:

20

REFERENCE(S):

(2) Beschin, A; J Biol Chem 1998, V273, P24948 CAPLUS

(3) Bilej, M; Immunol Lett 1995, V45, P123 CAPLUS (4) Bilej, M; Immunol Lett 1998, V60, P23 CAPLUS

(7) Field, C; Carbon Dioxide and Terrestrial

Ecosystems 1996, P121 CAPLUS

(8) Habicht, G; Adv Comp Environ Physiol 1996, V24,

P29 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 9 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 2

1999:59948 BIOSIS ACCESSION NUMBER: DOCUMENT NUMBER: PREV199900059948

TITLE: Estimation of chemical carcass composition from 8th rib

characteristics with Belgian blue double-muscled bulls. De Campeneere, S. (1); Fiems, L. O.; Van De Voorde, G.; Vanacker, J. M.; Boucque, C. V.; Demeyer, D. I.

(1) Agric. Res. Cent. Ghent, Dep. Animal Nutr. Husbandy, CORPORATE SOURCE:

Scheldeweg 68, 9090 Mell-Gontrode Belgium

Meat Science, (Jan., 1999) Vol. 51, No. 1, pp. 27-33. SOURCE:

ISSN: 0309-1740.

DOCUMENT TYPE: Article LANGUAGE: English

AUTHOR(S):

ANSWER 10 OF 30 USPATFULL

1998:113571 USPATFULL ACCESSION NUMBER: Outboard file cache system TITLE:

INVENTOR(S): Cooper, Thomas P., New Brighton, MN, United States Swenson, Robert E., Mendota Heights, MN, United States Unisys Corporation, Blue Bell, PA, United States (U.S.

PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATÉ _____

PATENT INFORMATION: US 5809527 19980915 APPLICATION INFO.: US 1993-174750 19931223 (8)

DOCUMENT TYPE: Utility FILE SEGMENT: Granted PRIMARY EXAMINER: Swann, Tod R. Thai, Tuan V. ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE: Johnson, Charles A., Starr, Mark T.

NUMBER OF CLAIMS: 37 EXEMPLARY CLAIM: 14

229 Drawing Figure(s); 198 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 8942

ANSWER 11 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 3 T.4

ACCESSION NUMBER: 1998:480950 BIOSIS DOCUMENT NUMBER: PREV199800480950

TITLE: Identification and cloning of a glucan- and

lipopolysaccharide-binding protein from Eisenia foetida earthworm involved in the activation of prophenoloxidase

cascade.

Beschin, Alain (1); Bilej, Martin; Hanssens, Filip; AUTHOR(S):

Raymakers, Jos; Van Dyck, Els; Revets, Hilde; Brys, Lea; Gomez, Julio; De Baetselier, Patrick; Timmermans, Miet (1) Unit Cellular Immunol., Flemish Interuniversity Inst.

CORPORATE SOURCE: Biotechnol., VIB-VUB, Paardenstraat 65, B-1640

St-Genesius-Rode Belgium

Journal of Biological Chemistry, (Sept. 18, 1998) Vol. 273, SOURCE:

No. 38, pp. 24948-24954.

ISSN: 0021-9258.

DOCUMENT TYPE: Article LANGUAGE: English

ANSWER 12 OF 30 CAPLUS COPYRIGHT 2001 ACS T.4

ACCESSION NUMBER: 1999:37162 CAPLUS

DOCUMENT NUMBER: 130:251435

TITLE: Estimation of chemical carcass composition from 8th rib characteristics with Belgian blue double-muscled

bulls

De Campeneere, S.; Fiems, L. O.; Van de Voorde, G.; AUTHOR(S):

Vanacker, J. M.; Boucque, Ch. V.; Demeyer, D. I.

Agricultural Research Centre, Ghent, Belg. CORPORATE SOURCE:

SOURCE: Meat Sci. (1998), Volume Date 1999, 51(1), 27-53

CODEN: MESCDN; ISSN: 0309-1740

Elsevier Science Ltd. PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 35

(3) Baardseth, P; Journal of Food Science 1992, V57, REFERENCE(S):

P822 CAPLUS

(21) Huffman, D; Cereal Foods World 1992, V37, P439 CAPLUS

(28) Morr, C; CRC Critical Reviews in Food Science and Nutrition 1993, V33, P431 CAPLUS

(29) Morr, C; Journal of Dairy Research 1979, V46, P369 CAPLUS

(30) Mulvihill, D; Food Technology 1987, V41(9), P102 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 13 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1998:181244 BIOSIS DOCUMENT NUMBER: PREV199800181244

Cellular expression of the cytolytic factor in earthworms TITLE:

Eisenia foetida.

Bilej, Martin (1); Rossmann, Pavel; Sinkora, Marek; AUTHOR(S):

Hanusova, Radka; Beschin, Alain; Raes, Geert; De

Baetselier, Patrick

CORPORATE SOURCE:

(1) Dep. Immunol., Inst. Microbiol., Acad. Sci. Czech Republic, Videnska 1083, 142 20 Prague 4 Czech Republic

Immunology Letters, (Jan., 1998) Vol. 60, No. 1, pp. 23-29. SOURCE:

ISSN: 0165-2478.

DOCUMENT TYPE: Article LANGUAGE: English

ANSWER 14 OF 30 USPATFULL

97:99967 USPATFULL ACCESSION NUMBER:

Method and apparatus for block-level auditing and TITLE:

database recovery in a transaction processing system Cooper, Thomas P., New Brighton, MN, United States INVENTOR(S):

Hill, Michael J., Vadnais Heights, MN, United States

Konrad, Dennis R., Welch, MN, United States

Nowatzki, Thomas L., Shoreview, MN, United States

Unisys Corporation, Blue Bell, PA, United States (U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE ______

US 5682527 PATENT INFORMATION: 19971028 US 1994-363443 19941222 (8) APPLICATION INFO.:

Utility DOCUMENT TYPE: Granted FILE SEGMENT:

Amsbury, Wayne PRIMARY EXAMINER:

Johnson, Charles A., Starr, Mark T. LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: 21 1. EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 22 Drawing Figure(s); 19 Drawing Page(s)

LINE COUNT: 1386

T.4 ANSWER 15 OF 30 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1998:376298 CAPLUS

DOCUMENT NUMBER:

129:178133

TITLE:

Validation of GOME with ground-based ozone

measurements at Uccle (Belgium)

AUTHOR (S):

Schoubs, Els; De Muer, Dirk

CORPORATE SOURCE:

Royal Meteorological Institute of Belgium, Brussels,

B-1180, Belg.

SOURCE:

Eur. Space Agency, [Spec. Publ.] ESA SP (1997), ESA

SP-414 (Vol. 2, Space at the Service of Our Environment), 715-718

CODEN: ESPUD4; ISSN: 0379-6566

PUBLISHER:

ESA Publications Division

DOCUMENT TYPE:

Journal

LANGUAGE:

English

ANSWER 16 OF 30 USPATFULL

ACCESSION NUMBER:

96:9640 USPATFULL

TITLE:

Multi-resonant boost high power factor circuit

INVENTOR(S):

El-Hamamsy, Sayed-Amr, Schenectady, NY, United States Kheraluwala, Mustansir H., Schenectady, NY, United

Kachmarik, David J., North Olmsted, OH, United States

PATENT ASSIGNEE(S):

General Electric Company, Schenectady, NY, United

States (U.S. corporation)

NUMBER KIND DATE _____

PATENT INFORMATION:

US 5488269 19960130 US 1995-386572 19950210

APPLICATION INFO.: DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER: ASSISTANT EXAMINER: Pascal, Robert J. Ratliff, Reginald A.

LEGAL REPRESENTATIVE:

Breedlove, Jill M., Snyder, Marvin

NUMBER OF CLAIMS:

14 1

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

11 Drawing Figure(s); 7 Drawing Page(s)

LINE COUNT:

ANSWER 17 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS L4ACCESSION NUMBER:

DUPLICATE 5

(8)

DOCUMENT NUMBER:

1995:253801 BIOSIS PREV199598268101

TITLE:

Identification of cytolytic protein in the coelomic fluid

of Eisenia foetida earthworms.

AUTHOR(S):

Bilej, Martin (1); Brys, Lea; Beschin, Alain; Lucas, Rudolf; Vercauteren, Edilbert; Hanusova, Radka; De

Baetselier, Patrick

CORPORATE SOURCE:

(1) Dep. Immunol. Gnotobiol., Inst. Microbiol., Acad. Sci.

Czech Republic, Videnska 1083, 142 20 Prague 4 Czech

Republic

SOURCE:

Immunology Letters, (1995) Vol. 45, No. 1-2, pp. 123-128.

ISSN: 0165-2478.

DOCUMENT TYPE:

Article

LANGUAGE:

English

L4ANSWER 18 OF 30

MEDLINE

ACCESSION NUMBER: DOCUMENT NUMBER:

94315664 MEDLINE

94315664 PubMed ID: 8040927

TITLE:

Application of a human immortalized fibroblast cell line in

laboratory diagnosis of autoimmune diseases.

AUTHOR:

Chiang L C; Chiang W; Wu C H

CORPORATE SOURCE:

Department of Microbiology, Kaohsiung Medical College,

Taiwan, Republic of China.

SOURCE:

KAO-HSIUNG I HSUEH KO HSUEH TSA CHIH [KAOHSIUNG JOURNAL OF

MEDICAL SCIENCES], (1994 May) 10 (5) 244-9.

Journal code: KAO; 8603880. ISSN: 0257-5655.

PUB. COUNTRY: TAIWAN: Taiwan, Province of China

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: Chinese

Dental Journals; Priority Journals FILE SEGMENT:

ENTRY MONTH: 199408

ENTRY DATE: Entered STN: 19940905

> Last Updated on STN: 19940905 Entered Medline: 19940825

ANSWER 19 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 6 L4

1993:315647 BIOSIS ACCESSION NUMBER: PREV199396023997 DOCUMENT NUMBER:

Nutrient utilization and rumen fermentation in crossbred TITLE:

calves fed maize fodder preserved with urea plus common

salt treatment.

Thakur, S. S.; Sharma, D. S. AUTHOR(S):

Dairy Cattle Nutr. Div., Natl. Dairy Res. Inst., Karnal, CORPORATE SOURCE:

Haryana 132 001 India

Indian Journal of Animal Sciences, (1993) Vol. 63, No. 4, SOURCE:

> pp. 456-460. ISSN: 0367-8318.

DOCUMENT TYPE: Article English LANGUAGE:

ANSWER 20 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 7

1993:192376 BIOSIS ACCESSION NUMBER: PREV199395102826 DOCUMENT NUMBER:

Bronchoalveolar lavage: Influence of cytologic methods on TITLE:

the cellular picture.

Taskinen, Eero (1); Tukiainen, Pentti; Renkonen, Risto AUTHOR(S):

CORPORATE SOURCE: (1) Transplantation Laboratory, Univ. Helsinki,

Haartmaninkatu 3, 00290 Helsinki Finland

Acta Cytologica, (1992) Vol. 36, No. 5, pp. 680-686. SOURCE:

ISSN: 0001-5547.

DOCUMENT TYPE: Article LANGUAGE: English

ANSWER 21 OF 30 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1993:475694 CAPLUS

DOCUMENT NUMBER: 119:75694

TITLE: Kinetics of copper dissolution by copper(II) chloride

in aerated neutral solutions and kinetics of copper(I) chloride oxidation to copper(II) hydroxychloride by

air

Lubej, A.; Plazl, I.; Koloini, T. AUTHOR(S):

CORPORATE SOURCE: Metall. Chem. Ind., Celje, 63000, Slovenia SOURCE: Chem. Biochem. Eng. Q. (1992), 6(4), 201-9

CODEN: CBEQEZ; ISSN: 0352-9568

DOCUMENT TYPE: Journal

LANGUAGE: English .

ANSWER 22 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 8

ACCESSION NUMBER: 1992:281815 BIOSIS

DOCUMENT NUMBER: BA94:6465

TITLE: SPONTANEOUS PRODUCTION OF GROWTH FACTORS FOR HUMAN

LYMPHOCYTES FROM A HUMAN PAPILLOMAVIRUS TYPE 18-CONTAINED

FORESKIN FIBROBLAST CELL LINE.

CHIANG L-C; CHIANG W; CHANG S-F; CHEN H-Y AUTHOR(S):

CORPORATE SOURCE: DEP. MICROBIOLOGY, KAOHSIUNG MEDICAL COLLEGE, NO. 100,

SHIH-CHUAN 1ST ROAD, KAOHSIUNG CITY 807, TAIWAN.

KAOHSIUNG J MED SCI, (1992) 8 (3), 121-126. CODEN: KHHCE2. ISSN: 0257-5655. SOURCE:

FILE SEGMENT: BA; OLD

English LANGUAGE:

ANSWER 23 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS DUPLICATE 9

ACCESSION NUMBER: 1992:280945 BIOSIS

BA94:5595 DOCUMENT NUMBER:

CHARACTERIZATION OF AN IMMORTALIZED HUMAN CELL LINE DERIVED TITLE:

FROM NEONATAL FORESKIN DIPLOID FIBROBLASTS.

AUTHOR(S): CHIANG L-C; CHIANG W; CHANG S-F; CHEN H-Y; YU H-S

CORPORATE SOURCE: DEP. MICROBIOLOGY, KAOHSIUNG MED. COLL., KAOHSIUNG 80708,

TAIWAN.

SOURCE: J DERMATOL (TOKYO), (1992) 19 (1), 1-11.

CODEN: JDMYAG. ISSN: 0385-2407.

FILE SEGMENT: BA; OLD LANGUAGE: English

ANSWER 24 OF 30 USPATFULL

ACCESSION NUMBER: 84:56945 USPATFULL

Processes for making 3-methylthiophene-2-carboxaldehyde TITLE:

and intermediates therefor

Andrews, Glenn C., Waterford, CT, United States INVENTOR(S): Pfizer Inc., New York, NY, United States (U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE US 4476312 19841009 US 1984-581463 19840217 (6) PATENT INFORMATION: APPLICATION INFO.:

Division of Ser. No. US 1982-381596, filed on 24 May RELATED APPLN. INFO.:

1982 DOCUMENT TYPE: Utility FILE SEGMENT: Granted PRIMARY EXAMINER: Siegel, Alan

LEGAL REPRESENTATIVE: Knuth, Charles J., Frost, A. E., Dryer, Mark

NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM: 1 1088 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 25 OF 30 USPATFULL

ACCESSION NUMBER: 84:51363 USPATFULL

Processes for making 3-methylthiophene-2-carboxaldehyde TITLE:

and intermediates therefor

INVENTOR(S): Andrews, Glenn C., Waterford, CT, United States Pfizer Inc., New York, NY, United States (U.S. PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE -----US 4471139

PATENT INFORMATION: 19840911 APPLICATION INFO.: US 1982-381596 19820524 (6)

DOCUMENT TYPE: Utility FILE SEGMENT: Granted PRIMARY EXAMINER: Siegel, Alan

LEGAL REPRESENTATIVE: Knuth, Charles J., Frost, A. E., Dryer, Mark

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 LINE COUNT: 1108

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 26 OF 30 USPATFULL

ACCESSION NUMBER: 80:30920 USPATFULL

Processor controlled editor terminal system and method TITLE:

INVENTOR(S): Sumner, Murray, Mamaroneck, NY, United States Liaukau, Sigitas J., Huntington, CT, United States PATENT ASSIGNEE(S): Bunker Ramo Corporation, Oak Brook, IL, United States

(U.S. corporation)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1975-538201, filed on 2 Jan

1975, now abandoned

DOCUMENT TYPE: Utility FILE SEGMENT: Granted

PRIMARY EXAMINER: Curtis, Marshall M.

LEGAL REPRESENTATIVE: Hill, Van Santen, Steadman, Chiara & Simpson

NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 27 Drawing Figure(s); 22 Drawing Page(s)

LINE COUNT: 3282

L4 ANSWER 27 OF 30 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1981:87172 CAPLUS

DOCUMENT NUMBER: 94:87172

TITLE: Development of superior liquid coolants CCF-

AUTHOR(S): Hodges, R. M.

CORPORATE SOURCE: Dow Corning Corp., Midland, MI, USA

SOURCE: Report (1979), ALO-4296-T2, 161 pp. Avail.: NTIS

From: Energy Res. Abstr. 1980, 5(12), Abstr. No. 18749

DOCUMENT TYPE: Report LANGUAGE: English

L4 ANSWER 28 OF 30 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER: 1980:139591 BIOSIS

DOCUMENT NUMBER: BA69:14587

TITLE: SIGNIFICANCE OF ORTHOGONAL ELECTRO CARDIOGRAM CHANGES WITH

AGE IN NORMAL MEN AND IN ARTERIAL HYPERTENSION WITHOUT

CONGESTIVE CARDIAC FAILURE IN MEN PAST 40.

AUTHOR(S): ARSENESCU G; SABAU M; BADIU G; VADUVA I; CHERCIU M; MECLEA

G

CORPORATE SOURCE: RADIOBIOL. SECT., DEP. PHYSIOL., TIRGU MURES COMPUT. CENT.,

MED. PHARM. INST., UNIV. BUCHAREST CLIN HOSP., FUNDENI,

ROM.

SOURCE: REV ROUM MORPHOL EMBRYOL PHYSIOL PHYSIOL, (1979) 16 (1),

3-8.

CODEN: RMEPDZ.

FILE SEGMENT: BA; OLD

LANGUAGE: English

L4 ANSWER 29 OF 30 USPATFULL

ACCESSION NUMBER: 77:4941 USPATFULL

TITLE: Metal complexes of azolyl ethers

INVENTOR(S): Buchel, Karl Heinz, Wuppertal, Germany, Federal

Republic of

Kramer, Wolfgang, Wuppertal, Germany, Federal Republic

of

Kaspers, Helmut, Leverkusen, Germany, Federal Republic

of

Scheinpflug, Hans, Leverkusen, Germany, Federal

Republic of

PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Leverkusen, Germany, Federal

Republic of (non-U.S. corporation)

APPLICATION INFO.:

US 1975-573212

19750430 (5)

NUMBER

DATE

19740517

PRIORITY INFORMATION:

DE 1974-2423987

DOCUMENT TYPE:

Utility

FILE SEGMENT:

Granted

PRIMARY EXAMINER:

Gallagher, R.

ASSISTANT EXAMINER:

Rivers, Diana G.

LEGAL REPRESENTATIVE:

Burgess, Dinklage & Sprung

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

12 1

LINE COUNT:

1052

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 30 OF 30 CAPLUS COPYRIGHT 2001 ACS

DUPLICATE 10

ACCESSION NUMBER:

1975:559489 CAPLUS

DOCUMENT NUMBER:

83:159489

TITLE:

Segments of paramyosin formed by cleavage at sites of

cysteine residues

AUTHOR(S):

Cowgill, Robert W.

CORPORATE SOURCE:

Bowman Gray Sch. Med., Wake Forest Univ.,

Winston-Salem, N. C., USA

SOURCE:

Biochemistry (1975), 14(19), 4277-9

CODEN: BICHAW

DOCUMENT TYPE:

Journal

LANGUAGE:

English

=> SET SMA OFF

SET COMMAND COMPLETED

=> SEL RAN.CAPLUS(3) L4 8

L4 WAS CREATED DURING MULTIFILE PROCESSING AND CANNOT BE USED WHEN CREATING E#S Enter SET SMARTSELECT ON before using SELECT to create an L-number of terms extracted from an L-number that contains answers or terms from more than one file. SET SMARTSELECT ON must be entered before you execute the SELECT command.

=> SET SMA ON

SET COMMAND COMPLETED

=> SEL RAN.CAPLUS(3) L4 8

SmartSELECT INITIATED

New TRANSFER and ANALYZE Commands Now Available See HELP TRANSFER and HELP ANALYZE for Details

L5

SEL L4 8 3 :

1 TERM

=>

=>

SET SMA LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS

SINCE FILE ENTRY

TOTAL SESSION